

For Research Use Only

SMARCA4 Recombinant antibody, PBS Only (Detector)

Catalog Number: 83310-2-PBS



Basic Information

Catalog Number:

83310-2-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG16256

GenBank Accession Number:

BC150298

GeneID (NCBI):

6597

UNIPROT ID:

P51532

Full Name:

SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4

Calculated MW:

1647 aa, 185 kDa

Observed MW:

185 kDa

Purification Method:

Protein A purification

CloneNo.:

240172F4

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), Cytometric bead array, Sandwich ELISA, Indirect ELISA, Sample test

Species Specificity:

human, mouse, rat

Product Information

83310-2-PBS targets SMARCA4 as part of a matched antibody pair:

MP00334-1: 83310-1-PBS capture and 83310-2-PBS detection (validated in Cytometric bead array, Sandwich ELISA)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

Background Information

SMARCA4, also named as BAF190A, BRG1, SNF2B and SNF2L4, belongs to the SNF2/RAD54 helicase family. SMARCA4 is a transcriptional coactivator cooperating with nuclear hormone receptors to potentiate transcriptional activation. It is a component of the CREST-BRG1 complex, a multiprotein complex that regulates promoter activation by orchestrating a calcium-dependent release of a repressor complex and a recruitment of an activator complex. It is also involved in vitamin D-coupled transcription regulation via its association with the WINAC complex, a chromatin-remodeling complex recruited by vitamin D receptor (VDR), which is required for the ligand-bound VDR-mediated transrepression of the CYP27B1 gene.

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS Only

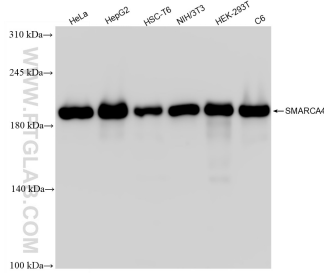
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

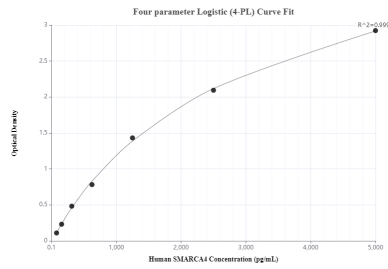
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

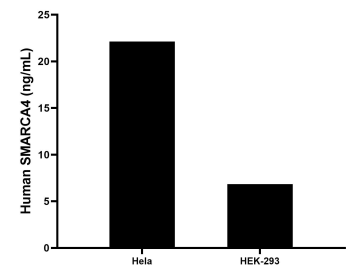
Selected Validation Data



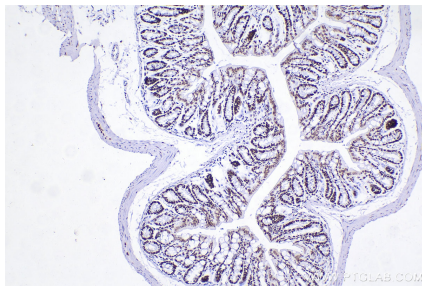
Various lysates were subjected to SDS PAGE followed by western blot with 83310-2-RR (SMARCA4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83310-2-PBS in a different storage buffer formulation.



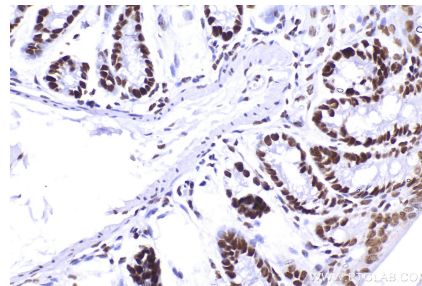
Sandwich ELISA standard curve of MP00334-1, Human SMARCA4 Recombinant Matched Antibody Pair - PBS only. 83310-1-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag16256. 83310-2-PBS was HRP conjugated as the detection antibody. Range: 78.1-5000 pg/mL.



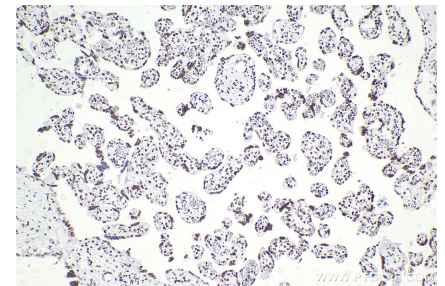
The mean SMARCA4 concentration was determined to be 22.1 ng/mL in HeLa cell extract based on a 3.6 mg/mL extract load and 6.9 ng/mL in HEK-293 cell extract based on a 4.6 mg/mL extract load.



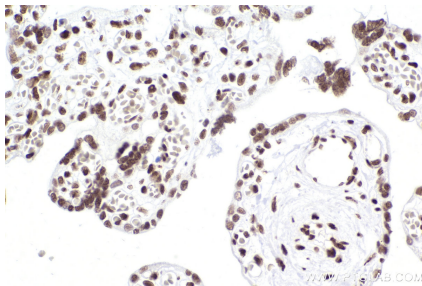
Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 83310-2-RR (SMARCA4 antibody) at dilution of 1:8000 (under 40x lens). Heat mediated antigen retrieval with . This data was developed using the same antibody clone with 83310-2-PBS in a different storage buffer formulation.



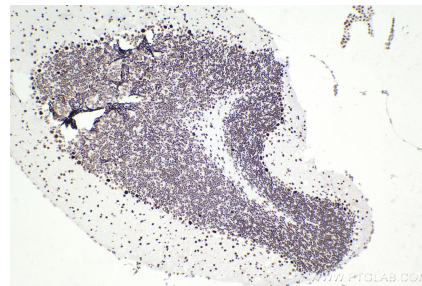
Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 83310-2-RR (SMARCA4 antibody) at dilution of 1:8000 (under 10x lens). Heat mediated antigen retrieval with . This data was developed using the same antibody clone with 83310-2-PBS in a different storage buffer formulation.



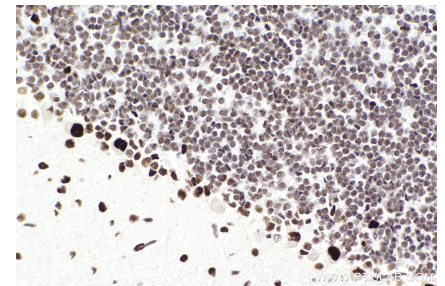
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 83310-2-RR (SMARCA4 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83310-2-PBS in a different storage buffer formulation.



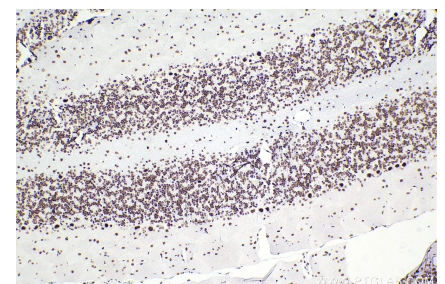
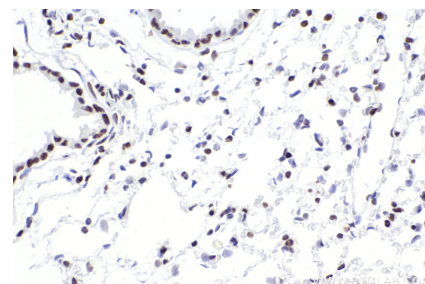
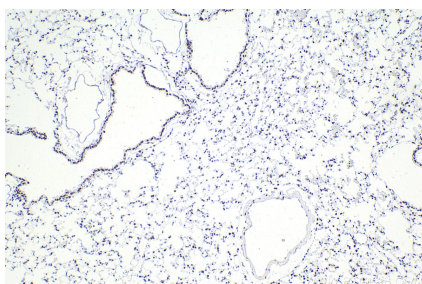
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 83310-2-RR (SMARCA4 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83310-2-PBS in a different storage buffer formulation.



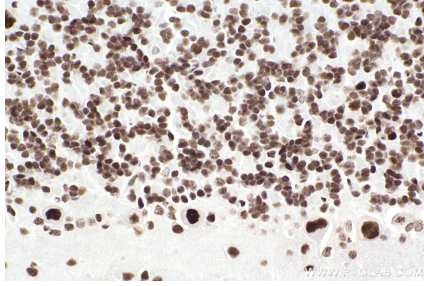
Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 83310-2-RR (SMARCA4 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83310-2-PBS in a different storage buffer formulation.



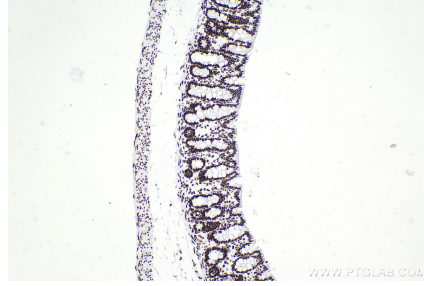
Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 83310-2-RR (SMARCA4 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83310-2-PBS in a different storage buffer formulation.



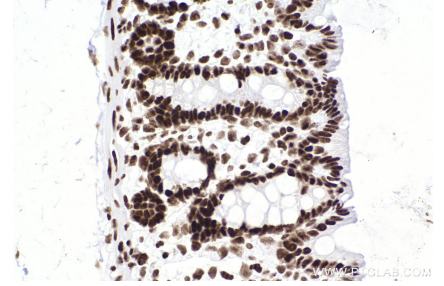
Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 83310-2-RR (SMARCA4 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83310-2-PBS in a different storage buffer formulation.



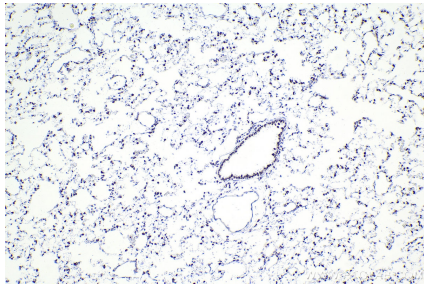
Immunohistochemical analysis of paraffin-embedded mouse lung tissue slide using 83310-2-RR (SMARCA4 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83310-2-PBS in a different storage buffer formulation.



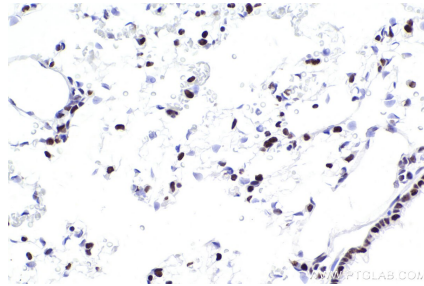
Immunohistochemical analysis of paraffin-embedded rat cerebellum tissue slide using 83310-2-RR (SMARCA4 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83310-2-PBS in a different storage buffer formulation.



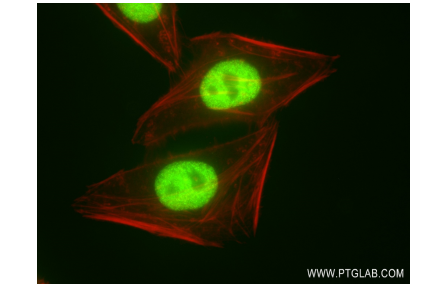
Immunohistochemical analysis of paraffin-embedded rat cerebellum tissue slide using 83310-2-RR (SMARCA4 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83310-2-PBS in a different storage buffer formulation.



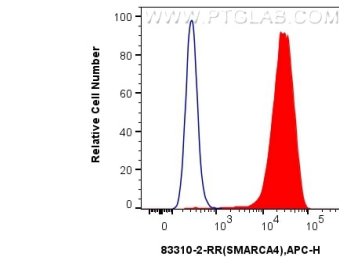
Immunohistochemical analysis of paraffin-embedded rat colon tissue slide using 83310-2-RR (SMARCA4 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83310-2-PBS in a different storage buffer formulation.



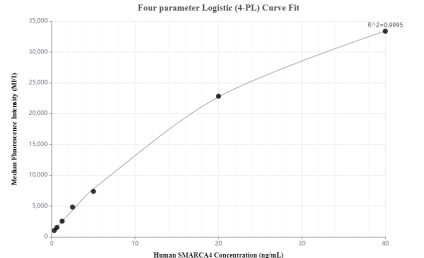
Immunohistochemical analysis of paraffin-embedded rat colon tissue slide using 83310-2-RR (SMARCA4 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83310-2-PBS in a different storage buffer formulation.



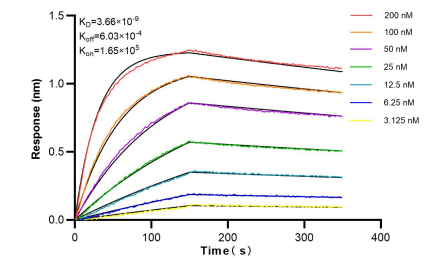
Immunohistochemical analysis of paraffin-embedded rat lung tissue slide using 83310-2-RR (SMARCA4 antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83310-2-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded rat lung tissue slide using 83310-2-RR (SMARCA4 antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83310-2-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using SMARCA4 antibody (83310-2-RR, Clone: 240172F4) at dilution of 1:250 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 83310-2-PBS in a different storage buffer formulation.



1×10^6 Jurkat cells were intracellularly stained with 0.25 μ g SMARCA4 Recombinant antibody (83310-2-RR, Clone:240172F4) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (red), or 0.25 μ g Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 83310-2-PBS in a different storage buffer formulation.

Cytometric bead array standard curve of MP00334-1, SMARCA4 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83310-1-PBS. Detection antibody: 83310-2-PBS. Standard: Ag16256. Range: 0.313-40 ng/mL.

Bi-layer interferometry (BLI) kinetic assays of 83310-2-RR against Human SMARCA4 were performed. The affinity constant is 3.66 nM.