For Research Use Only

SENP1 Recombinant antibody, PBS Only (Detector)

Catalog Number:83594-1-PBS

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Antibodies | ELISA kits | Proteins
Uni-rAb
www.ptglab.com

Basic Information

Catalog Number:
83594-1-PBS

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

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG18028

GenBank Accession Number:
BC045639

GeneID (NCBI):
29843

UNIPROT ID:
Q9P0U3

Full Name:
SUMO1/sentrin specific peptidase 1

Calculated MW:
644 aa, 73 kDa

Purification Method:
Protein A purification

CloneNo.:
240478F3

Applications

Tested Applications:
IHC, IF/ICC, FC (Intra), Cytometric bead array, Indirect ELISA

Species Specificity:
human

Product Information

83594-1-PBS targets SENP1 as part of a matched antibody pair:

MP00607-1: 83594-2-PBS capture and 83594-1-PBS detection (validated in Cytometric bead array)

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

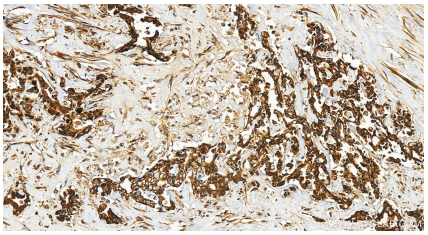
SENP1, Sentrin-specific protease 1, is a cysteine protease that specifically targets members of the small ubiquitin-like modifier (SUMO) protein family. SENP1 catalyzes two functions in the SUMO pathway (PMID: 29506078).The first is the hydrolysis of an alpha-linked peptide bond at the C-terminal end of the small ubiquitin-like modifier (SUMO) propeptides. The second is the deconjugation of SUMO1, SUMO2 and SUMO3 from targeted proteins (PMID: 16253240). SENP1 is located in the nucleus and cytosol.

Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS Only

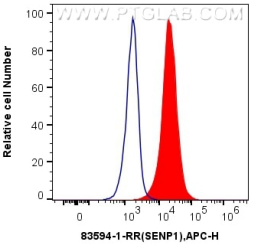
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

Selected Validation Data

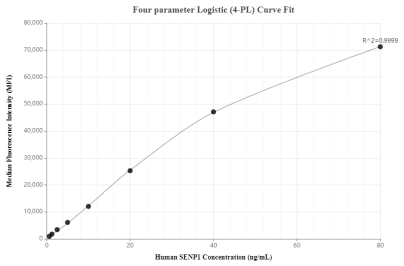


Immunohistochemical analysis of paraffin-embedded human intrahepatic cholangiocarcinoma tissue slide using 83594-1-RR (SENP1 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83594-1-PBS in a different storage buffer formulation.

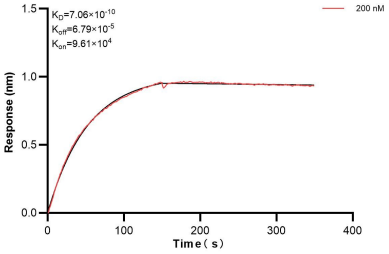
Immunofluorescent analysis of (4% PFA) fixed A431 cells using SENP1 antibody (83594-1-RR, Clone: 240478F3) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 83594-1-PBS in a different storage buffer formulation.



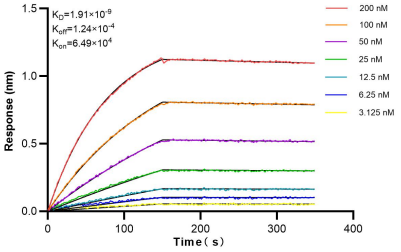
1x10^6 HeLa cells were intracellularly stained with 0.25 ug SENP1 Recombinant antibody (83594-1-RR, Clone:240478F3) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 83594-1-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00607-1, SENP1 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83594-2-PBS. Detection antibody: 83594-1-PBS. Standard: Ag18028. Range: 0.625-80 ng/mL.



Biolayer interferometry (BLI) kinetic assay of 83594-1-PBS against Human SENP1 was performed. The affinity constant is 0.706 nM.



Biolayer interferometry (BLI) kinetic assays of 83594-1-RR against Human SENP1 were performed. The affinity constant is 1.91 nM.