For Research Use Only

PROS1 Recombinant antibody, PBS Only (Capture)

Catalog Number:84107-2-PBS Featured Product

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

Basic Information

Catalog Number:
84107-2-PBS

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

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG10539

GenBank Accession Number:
BC015801

GeneID (NCBI):
5627

UNIPROT ID:
P07225

Full Name:
protein S (alpha)

Calculated MW:
75 kDa

Observed MW:
75 kDa

Purification Method:
Protein A purification

CloneNo.:
241241E5

Applications

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

Species Specificity:
human

Product Information

84107-2-PBS targets PROS1 as part of a matched antibody pair:

MP01044-1: 84107-2-PBS capture and 84107-1-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

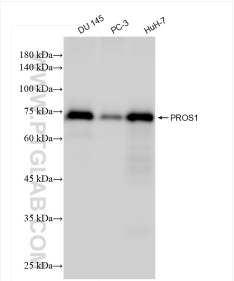
PROS1, also named as Vitamin K-dependent protein S, is a 676 amino acid protein, which contains 4 EGF-like domains, contains one Gla (gamma-carboxy-glutamate) domain and contains 2 laminin G-like domains. PROS1 as a secreted protein platelets alpha granules is expressed in plasma. PROS1 is a cofactor to activated protein C in the degradation of coagulation factors Va and VIIIa and helps to prevent coagulation and stimulating fibrinolysis.

Storage

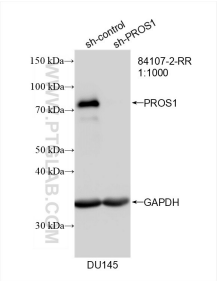
Storage:
Store at -80°C.
Storage Buffer:
PBS Only

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

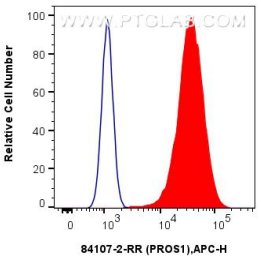
Selected Validation Data



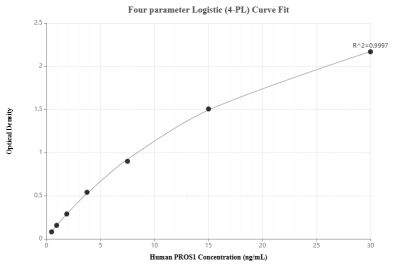
Various lysates were subjected to SDS PAGE followed by western blot with 84107-2-RR (PROS1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84107-2-PBS in a different storage buffer formulation.



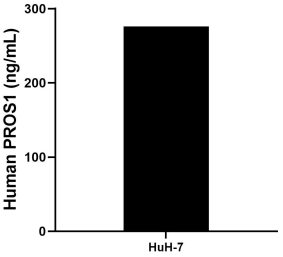
WB result of PROS1 antibody (84107-2-RR; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PROS1 transfected DU 145 cells. This data was developed using the same antibody clone with 84107-2-PBS in a different storage buffer formulation.



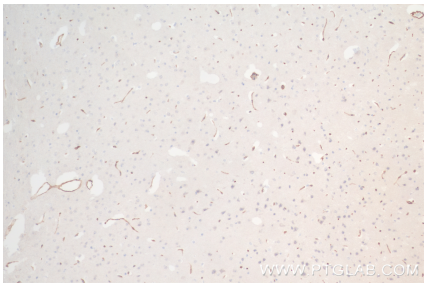
1x10^6 A549 cells were intracellularly stained with 0.25 ug PROS1 Recombinant antibody (84107-2-RR, Clone:241241E5) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 84107-2-PBS in a different storage buffer formulation.



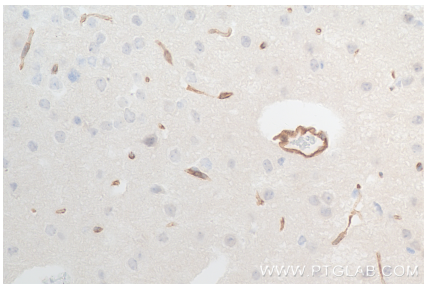
Sandwich ELISA standard curve of MP01044-1, Human PROS1 Recombinant Matched Antibody Pair - PBS only. 84107-2-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag10539. 84107-1-PBS was HRP conjugated as the detection antibody. Range: 0.469-30 ng/mL



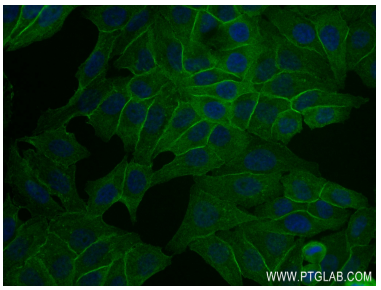
The mean PROS1 concentration was determined to be 276.09 ng/mL in HuH-7 cell extract based on a 1.4 mg/mL extract load.



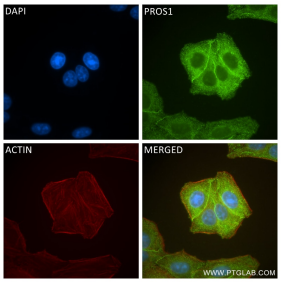
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 84107-2-RR (PROS1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84107-2-PBS in a different storage buffer formulation.



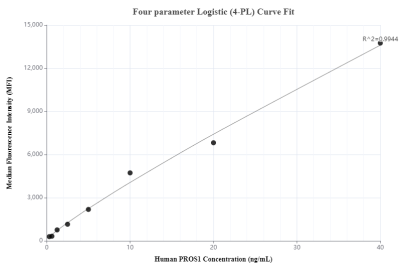
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 84107-2-RR (PROS1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84107-2-PBS in a different storage buffer formulation.

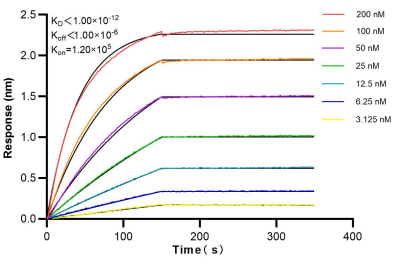


Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using PROS1 antibody (84107-2-RR, Clone: 241241E5) at dilution of 1:250 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). This data was developed using the same antibody clone with 84107-2-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using PROS1 antibody (84107-2-RR, Clone: 241241E5) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red). This data was developed using the same antibody clone with 84107-2-PBS in a different storage buffer formulation.





Cytometric bead array standard curve of MP01044-1, PROS1 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84107-2-PBS. Detection antibody: 84107-1-PBS. Standard: Ag10539. Range: 0.313-40 ng/mL.

Biolayer interferometry (BLI) kinetic assays of 84107-2-RR against Human PROS1 were performed. The affinity constant is below 1 pM.