

For Research Use Only

uPAR/CD87 Recombinant antibody, PBS Only (Capture/Detector)

Catalog Number: 82953-2-PBS



Basic Information

| | | |
|------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------|
| Catalog Number: 82953-2-PBS | GenBank Accession Number: BC002788 | Purification Method: Protein A purification |
| Size: 100ug, Concentration: 1 mg/ml by Nanodrop; | GeneID (NCBI): 5329 | CloneNo.: 230148B10 |
| Source: Rabbit | UNIPROT ID: Q03405 | |
| Isotype: IgG | Full Name: PLAUR | |
| Immunogen Catalog Number: AG28056 | Calculated MW: 37 kDa | |
| | Observed MW: 35-50 kDa | |

Applications

Tested Applications:
WB, IHC, Cytometric bead array, Sandwich ELISA, Indirect ELISA

Species Specificity:
human, mouse

Product Information

82953-2-PBS targets uPAR/CD87 as part of a matched antibody pair:

MP00129-1: 82953-2-PBS capture and 82953-3-PBS detection (validated in Sandwich ELISA)

MP00129-2: 82953-4-PBS capture and 82953-2-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

uPAR is a highly glycosylated, GPI-anchored membrane protein. In addition to the membrane-anchored form, uPAR is released from the plasma membrane by cleavage of the GPI anchor and can be found as a soluble form (suPAR). uPAR contains three homologous domains (D1-D3) of which the N-terminal one (D1) represents the uPA-binding domain. After binding to uPAR, uPA cleaves plasminogen, generating the active protease plasmin which is involved in a wide variety of physiologic and pathologic processes. In addition to regulating proteolysis, uPAR has important function in cell adhesion, migration and proliferation. Studies reveal that uPAR expression is elevated during inflammation and tissue remodeling and in many human cancers, in which it frequently indicates poor prognosis. (PMID 20027185; 12461559)

Storage

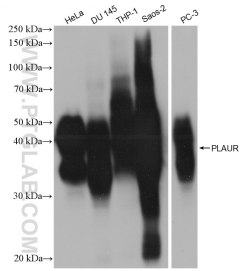
Storage:
Store at -80°C.

Storage Buffer:
100% PBS pH 7.3

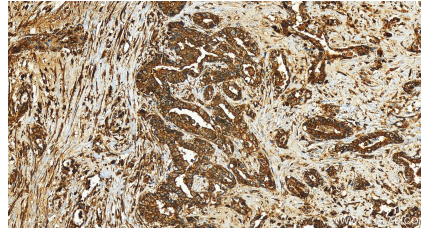
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

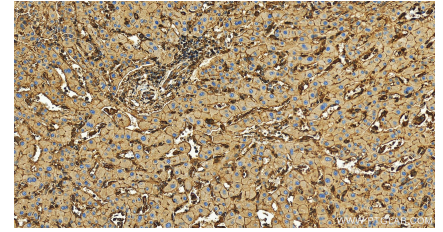
Selected Validation Data



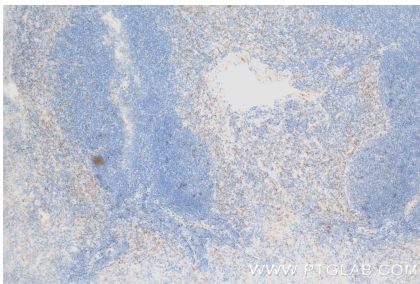
Various lysates were subjected to SDS PAGE followed by western blot with 82953-2-RR (uPAR/CD87 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 82953-2-PBS in a different storage buffer formulation.



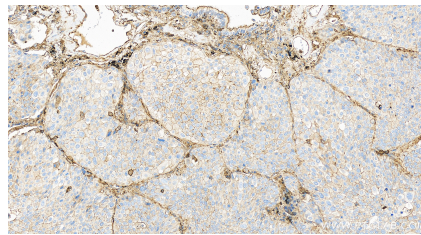
Immunohistochemical analysis of paraffin-embedded human intrahepatic cholangiocarcinoma tissue slide using 82953-2-RR (uPAR/CD87 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82953-2-PBS in a different storage buffer formulation.



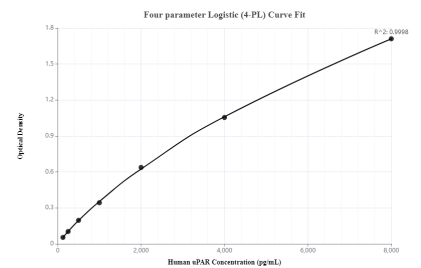
Immunohistochemical analysis of paraffin-embedded human intrahepatic cholangiocarcinoma tissue slide using 82953-2-RR (uPAR/CD87 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82953-2-PBS in a different storage buffer formulation.



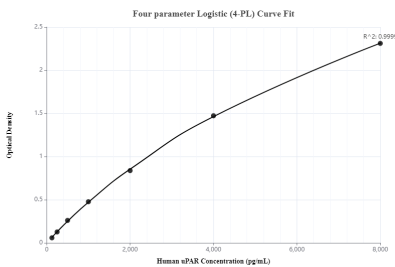
Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 82953-2-RR (uPAR/CD87 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82953-2-PBS in a different storage buffer formulation.



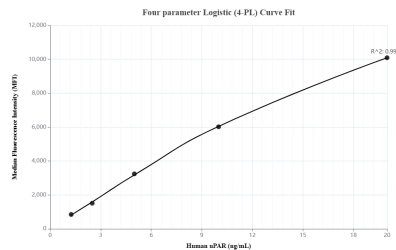
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 82953-2-RR (uPAR/CD87 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82953-2-PBS in a different storage buffer formulation.



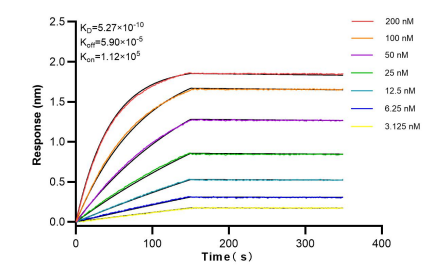
Sandwich ELISA standard curve of MP00129-1, uPAR/CD87 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 82953-2-PBS. Detection antibody: 82953-3-PBS. Standard: Ag28056. Range: 125-8000 pg/mL.



Sandwich ELISA standard curve of MP00129-2, uPAR/CD87 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 82953-4-PBS. Detection antibody: 82953-2-PBS. Standard: Ag28056. Range: 125-8000 pg/mL.



Cytometric bead array standard curve of MP00129-2, uPAR/CD87 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 82953-4-PBS. Detection antibody: 82953-2-PBS. Standard: Ag28056. Range: 1.25-20 ng/mL.



Bi-layer interferometry (BLI) kinetic assays of 82953-2-RR against Human uPAR, PLAUR were performed. The affinity constant is 0.527 nM.