

For Research Use Only

ADAM17 Recombinant antibody, PBS Only (Detector)

Catalog Number: 84292-4-PBS



Basic Information

Catalog Number: 84292-4-PBS	GenBank Accession Number: BC136783	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 6868	CloneNo.: 241305A2
Source: Rabbit	UNIPROT ID: P78536	
Isotype: IgG	Full Name: ADAM metallopeptidase domain 17	
Immunogen Catalog Number: AG32418	Calculated MW: 824 aa, 93 kDa	

Applications

Tested Applications:
WB, IHC, FC (Intra), Sandwich ELISA, Indirect ELISA, Sample test

Species Specificity:
human, mouse

Product Information

84292-4-PBS targets ADAM17 as part of a matched antibody pair:

MP01169-3: 84292-3-PBS capture and 84292-4-PBS detection (validated in 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

The ADAMs (A Disintegrin And Metalloprotease) are multidomain transmembrane proteins. One of the first ADAMs implicated in membrane shedding is ADAM-17, which is shown to release the active form of tumor necrosis factor (TNF)-α from its precursor (PMID:18238782). ADAM17 is also named as CSVP, TACE. The full length protein has 9 glycosylation sites, a signal peptide, propeptide and 2 isoforms produced by alternative splicing. The 120-kDa form of ADAM-17 is expressed more frequently and at higher levels in primary breast carcinomas compared with normal breast tissue (PMID:17438092).

Storage

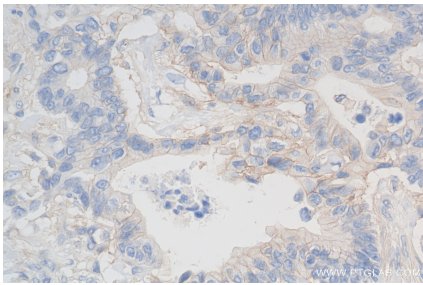
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

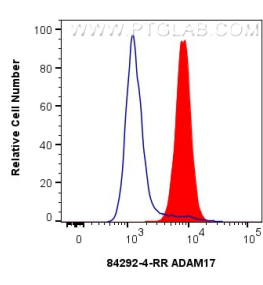
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

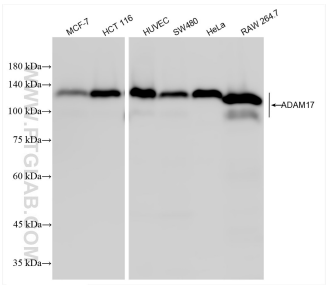
Selected Validation Data



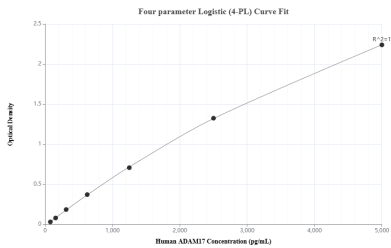
Immunohistochemical analysis of paraffin-embedded human rectal cancer tissue slide using 84292-4-RR (ADAM17 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 84292-4-PBS in a different storage buffer formulation.



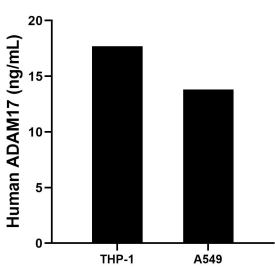
1x10⁶ HCT 116 cells were intracellularly stained with 0.25 ug ADAM17 Recombinant antibody (84292-4-RR, Clone:241305A2) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 84292-4-PBS in a



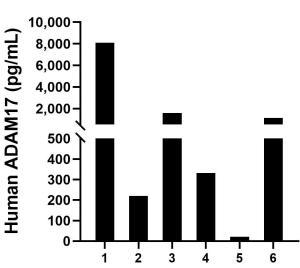
Various lysates were subjected to SDS PAGE followed by western blot with 84292-4-RR (ADAM17 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84292-4-PBS in a different storage buffer formulation.



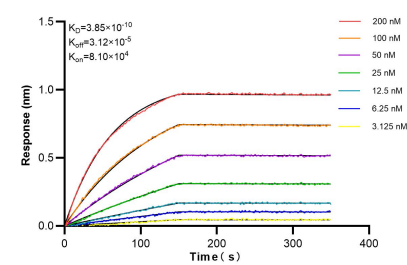
Sandwich ELISA standard curve of MP01169-3, Human ADAM17 Recombinant Matched Antibody Pair - PBS only. 84292-3-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag32418. 84292-4-PBS was HRP conjugated as the detection antibody. Range: 78.1-5000 pg/mL



The mean ADAM17 concentration was determined to be 18.51 ng/mL in THP-1 cell extract based on a 4.4 mg/mL extract load and 13.76 ng/mL in A549 cell extract based on a 2.7 mg/mL extract load.



Serum of six individual healthy human donors was measured. The human ADAM17 concentration of detected samples was determined to be 1,898.9 pg/mL with a range of 21.5 - 8,096.2 ng/mL



Biolayer interferometry (BLI) kinetic assays of 84292-4-RR against Human ADAM17 were performed. The affinity constant is 0.385 nM.