

# ADAM17 Recombinant antibody

Catalog Number: 84292-4-RR

## Basic Information

|                           |                                  |                        |
|---------------------------|----------------------------------|------------------------|
| Catalog Number:           | GenBank Accession Number:        | Purification Method:   |
| 84292-4-RR                | BC136783                         | Protein A purification |
| Concentration:            | GeneID (NCBI):                   | CloneNo.:              |
| 1000 µg/ml                | 6868                             | 241305A2               |
| Source:                   | UNIPROT ID:                      | Recommended Dilutions: |
| Rabbit                    | P78536                           | WB 1:2000-1:10000      |
| Isotype:                  | Full Name:                       | IHC 1:250-1:1000       |
| IgG                       | ADAM metalloproteinase domain 17 |                        |
| Immunogen Catalog Number: | Calculated MW:                   |                        |
| AG32418                   | 824 aa, 93 kDa                   |                        |

## Applications

|  |  |
|--|--|
| Tested Applications:   | Positive Controls:   |
| WB, IHC, FC (Intra), ELISA   | WB : MCF-7 cells, HCT 116 cells, HUVEC cells, SW480 cells, HeLa cells, RAW 264.7 cells |
| Species Specificity:   | IHC : human rectal cancer tissue,  |
| human, mouse   |  |
| <b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b> |  |

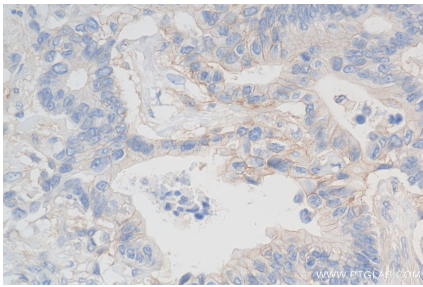
## Background Information

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).

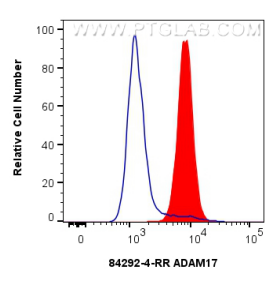
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

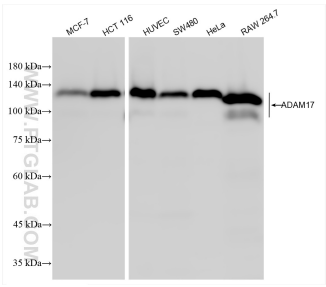
Selected Validation Data



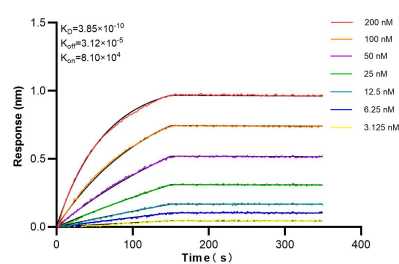
Immunohistochemical analysis of paraffin-embedded human rectal cancer tissue slide using 84292-4-RR (ADAM17 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10<sup>6</sup> 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).



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.



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