**Product Name: ADAM10 Rabbit Polyclonal Antibody**
**Catalog #: APRab06588**

## Summary

| | |
|---|---|
| **Production Name** | ADAM10 Rabbit Polyclonal Antibody |
| **Description** | Rabbit Polyclonal Antibody |
| **Host** | Rabbit |
| **Application** | WB |
| **Reactivity** | Human,Rat,Mouse |

## Performance

| | |
|---|---|
| **Conjugation** | Unconjugated |
| **Modification** | Unmodified |
| **Isotype** | IgG |
| **Clonality** | Polyclonal |
| **Form** | Liquid |
| **Storage** | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |
| **Buffer** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N. |
| **Purification** | Affinity purification |

## Immunogen

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|---|---|
| **Gene Name** | ADAM10 |
| **Alternative Names** | ADAM10; KUZ; MADM; Disintegrin and metalloproteinase domain-containing protein 10; ADAM 10; CDw156; Kuzbanian protein homolog; Mammalian disintegrin-metalloprotease; CD antigen CD156c |
| **Gene ID** | 102.0 |
| **SwissProt ID** | O14672.Synthesized peptide derived from ADAM10 . at AA range: 170-250 |

## Application

| | |
|---|---|
| **Dilution Ratio** | WB 1:500-1:2000. ELISA: 1:20000. |
| **Molecular Weight** | 85kD |

## Background

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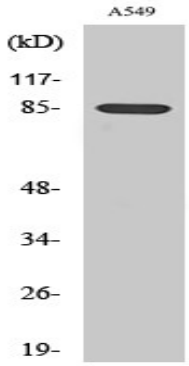
ADAM metallopeptidase domain 10(ADAM10) Homo sapiens  Members of the ADAM family are cell surface proteins with a unique structure possessing both potential adhesion and protease domains. This gene encodes and ADAM family member that cleaves many proteins including TNF-alpha and E-cadherin. Alternate splicing results in multiple transcript variants encoding different proteins that may undergo similar processing. [provided by RefSeq, Feb 2016],catalytic activity:Endopeptidase of broad specificity.,cofactor:Binds 1 zinc ion.,domain:The conserved cysteine present in the cysteine-switch motif binds the catalytic zinc ion, thus inhibiting the enzyme. The dissociation of the cysteine from the zinc ion upon the activation-peptide release activates the enzyme.,function:Cleaves the membrane-bound precursor of TNF-alpha at '76-Ala-|-Val-77' to its mature soluble form. Responsible for the proteolytic release of several other cell-surface proteins, including heparin-binding epidermal growth-like factor, ephrin-A2 and for constitutive and regulated alpha-secretase cleavage of amyloid precursor protein (APP). Contributes to the normal cleavage of the cellular prion protein. Involved in the cleavage of the adhesion molecule L1 at the cell surface and in released membrane vesicles, suggesting a vesicle-based protease activity. Controls also the proteolytic processing of Notch and mediates lateral inhibition during neurogenesis.,induction:In osteoarthritis affected-cartilage.,PTM:The precursor is cleaved by a furin endopeptidase.,similarity:Contains 1 disintegrin domain.,similarity:Contains 1 peptidase M12B domain.,subcellular location:Is localized in the plasma membrane but is predominantly expressed in the Golgi apparatus and in released membrane vesicles derived likely from the Golgi.,subunit:Interacts with ephrin-A2.,tissue specificity:Expressed in spleen, lymph node, thymus, peripheral blood leukocyte, bone marrow, cartilage, chondrocytes and fetal liver.,

## Research Area

Alzheimer's disease;Epithelial cell signaling in Helicobacter pylori infection;

## Image Data




Western Blot analysis of various cells using ADAM10 Polyclonal Antibody

## Note

For research use only.