Anti-ADAM10 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R014670

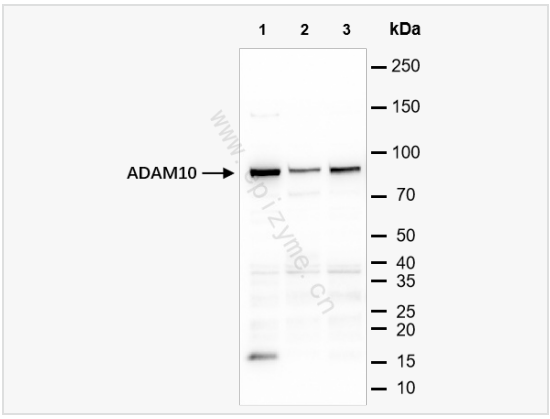
Product Information

Application	WB, IF (Cell)/ICC, ELISA
Reactivity	Human
Dilution	WB 1:1,000~1:2,000; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	84L55I30
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human ADAM10
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-ADAM10 Rabbit mAb [84L55I30] is for research use only and not for use in diagnostic or therapeutic procedures.

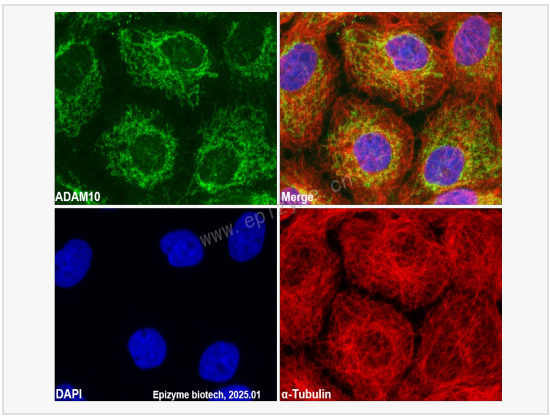
Protein Information

Synonyms	A disintegrin and metalloprotease domain 10, A disintegrin and metalloproteinase domain 10, AD 10, AD10, AD18, ADA10_HUMAN, ADAM 10, ADAM metallopeptidase domain 10, ADAM10, CD 156c, CD156c, CD156c antigen, CDw156, disintegrin and metalloproteinase domain containing protein 10, Disintegrin and metalloproteinase domain-containing protein 10, HsT 18717, HsT18717, Kuz, Kuzbanian, Kuzbanian protein homolog, Kuzbanian, Drosophila, homolog of, MADM, Mammalian disintegrin metalloprotease, Mammalian disintegrin-metalloprotease, RAK.
Calculated MW	Calculated MW: 84 kDa; Observed MW: 84 kDa
Uniprot ID	O14672
Gene ID	102
Background	The ADAM10 prodomain acts as a chaperone that stabilizes mature ADAM protein folding, and prevents target-protein shedding through inhibition of ADAM10 proteinase activity. Mature ADAM10 is the major α-secretase responsible for cleavage of Notch, APP, cadherins, and prion protein. The ADAM10 protein cleaves receptor tyrosine kinases and their associated ligands and displays a wide range of regulatory functions across related signaling pathways.
Cellular Location	Cell membrane. Endomembrane system. Is localized in the plasma membrane but is predominantly expressed in the Golgi apparatus and in released membrane vesicles derived likely from the Golgi.
Tissue Location	Expressed in spleen, lymph node, thymus, peripheral blood leukocyte, bone marrow, cartilage, chondrocytes and fetal liver.

Validation Images



Western Blot - Anti-ADAM10 Rabbit mAb [84L55I30]
All lanes: R014670 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 84 kDa
Observed band size: 84 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-ADAM10 Rabbit mAb [84L55I30]
Sample: A431 cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R014670 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (CY3) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).