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Publication



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Overview

Quantity:	100 μL
Target:	ADAM12
Binding Specificity:	AA 251-350
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ADAM12 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human ADAM12/MLTN
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Predicted Reactivity:	Rat,Dog,Cow,Pig,Chicken,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	ADAM12
Alternative Name:	ADAM12 (ADAM12 Products)
Background:	Synonyms: MLTN, A disintegrin and metalloproteinase domain 12, A disintegrin and

metalloproteinase domain 12, ADA12_HUMAN, ADAM 12, ADAM metallopeptidase domain 12, ADAM12, Disintegrin and metalloproteinase domain-containing protein 12, MCMP, MCMPMltna, MCMPMltna, Meltrin alpha, Meltrin-alpha, MLTN, MLTNA, OTTHUMP00000046766.

Background: ADAM (a disintegrin and metalloprotease) proteins are a family of over 30 membrane-anchored, glycosylated, Zn2+ dependent proteases that are involved in cell-cell, cell-matrix interface related processes including fertilization, muscle fusion, secretion of TNF?(tumor necrosis factor ?, and modulation of the neurogenic function of Notch and Delta (1-3). ADAM proteins possess a signal-domain, a pro-domain, a metalloprotease domain, a disintegrin domain (Integrin ligand), a cysteine-rich region, an epidermal growth factor-like domain, a transmembrane domain and a cytoplasmic tail (1-3). ADAMs are expressed in brain, testis, epididymis, ovary, breast, placenta, liver, heart, lung, bone, and muscle, and catalyze proteolysis, adhesion, fusion, and intracellular signaling (3). ADAM 12 (Meltrin-a) is produced as 2 differentially spliced isoforms, a 718 amino acid secreted form (ADAM12S) and a 881 amino acid membrane-bound form (ADAM12L), and is involved in egg-sperm fusion (4-6).

Pathways:

EGFR Signaling Pathway

Application Details

Application	Notes:

WB 1:300-5000

ELISA 1:500-1000

IHC-P 1:200-400

Restrictions:

For Research Use only

Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

Product cited in:

Branco, da Costa, Abe, Kataoka, Pinheiro, Alves Júnior: "HIF-1α, NOTCH1, ADAM12, and HB-EGF are overexpressed in mucoepidermoid carcinoma." in: **Oral surgery, oral medicine, oral pathology and oral radiology**, Vol. 127, Issue 1, pp. e8-e17, (2019) (PubMed).