

For Research Use Only

ADAM12 Polyclonal antibody

Catalog Number: 26928-1-AP



Basic Information

Catalog Number:	BC060804	GenBank Accession Number:	Purification Method:
26928-1-AP			Antigen affinity purification
Size:	GenID (NCBI):		
150ul, Concentration: 300 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard;	8038		
Source:	UNIPROT ID:		
Rabbit	O43184		
Isotype:	Full Name:		
IgG	ADAM metallopeptidase domain 12		
Immunogen Catalog Number:	Calculated MW:		
AG17474	909 aa, 100 kDa		
	Observed MW:		
	68 kDa		

Applications

Tested Applications:

ELISA

Species Specificity:

human, mouse, rat

Background Information

ADAM12, also named as MLTN and Meltrin-alpha, is involved in skeletal muscle regeneration, specifically at the onset of cell fusion. It is also involved in macrophage-derived giant cells (MGC) and osteoclast formation from mononuclear precursors. ADAM12 is expressed in human malignant tumors. It is involved in the regulation of growth factor activities and integrin functions, leading to promotion of cell growth and invasion, although the precise mechanisms of these are not clear at the present time.(PMID:17355265) ADAM12's ability to degrade extracellular matrix components likely allows it to detach cancer cells from the basement membrane and assist them on their route to metastasis. But the protein's role not just as a biomarker of breast cancer but as a gateway to cancer cell migration is only now being understood. ADAM12 has 2 isoforms with the calculated molecular mass of 100 and 80 kDa, and this antibody can recognize all isoforms of ADAM12. ADAM12 has 4 forms: 120kd full-length form, 90 kDa mature (processed form that lack the prodomain), 50-68 kDa degradation product and 27 kDa prodomain.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
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Selected Validation Data