

For Research Use Only

# ADAM12 Polyclonal antibody

Catalog Number: 26928-1-AP



## Basic Information

<b>Catalog Number:</b> 26928-1-AP	<b>GenBank Accession Number:</b> BC060804	<b>Purification Method:</b> Antigen affinity purification
<b>Concentration:</b> 300 ug/ml	<b>GeneID (NCBI):</b> 8038	
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O43184	
<b>Isotype:</b> IgG	<b>Full Name:</b> ADAM metalloproteinase domain 12	
<b>Immunogen Catalog Number:</b> AG17474	<b>Calculated MW:</b> 909 aa, 100 kDa	
	<b>Observed MW:</b> 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**

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

T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.com)

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