

# ADAM12 Polyclonal ANTIBODY

Catalog Number: 26928-1-AP

## Basic Information

<b>Catalog Number:</b> 26928-1-AP	<b>GenBank Accession Number:</b> BC060804	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:50-1:500
<b>Size:</b> 40 µg/150 µl	<b>GeneID (NCBI):</b> 8038	
<b>Source:</b> Rabbit	<b>Full Name:</b> ADAM metalloproteinase domain 12	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 909aa, 100 kDa	
<b>Purification Method:</b> Antigen affinity purification	<b>Observed MW:</b> 68 kDa	
<b>Immunogen Catalog Number:</b> AG17474		

## Applications

### Tested Applications:

IHC, WB, ELISA

### Species Specificity:

human, mouse, rat brain

**Note - IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : mouse brain tissue, A431 cells, A549 cells, rat brain tissue

IHC : human endometrial cancer tissue;

## 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. (PMD: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, 90kd mature (processed form that lack the prodomain), 50-68kd degradation product and 27kd prodomain.

## Notable Publications

Author	Pubmed ID	Journal	Application
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## Storage

### Storage:

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

### Storage Buffer:

PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

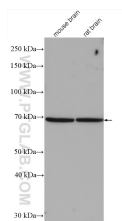
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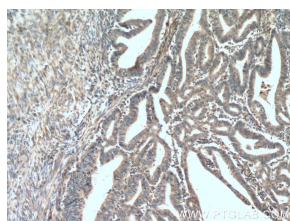
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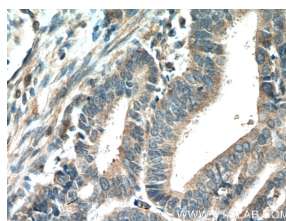
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 26928-1-AP (ADAM12 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours



Immunohistochemical analysis of paraffin-embedded human endometrial cancer tissue slide using 26928-1-AP (ADAM12 Antibody) at dilution of 1:200 (under 10x lens). heat mediated antigen retrieved with Tris-EDTA buffer(pH9).



Immunohistochemical analysis of paraffin-embedded human endometrial cancer tissue slide using 26928-1-AP (ADAM12 Antibody) at dilution of 1:200 (under 40x lens). heat mediated antigen retrieved with Tris-EDTA buffer(pH9).