

For Research Use Only

ADAM12 Polyclonal antibody

Catalog Number: 14139-1-AP

Featured Product

34 Publications



Basic Information

Catalog Number:
14139-1-AP

Size:
150ul , Concentration: 600 µg/ml by Nanodrop and 260 µg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG5206

GenBank Accession Number:
BC060804

GeneID (NCBI):
8038

Full Name:
ADAM metalloproteinase domain 12

Calculated MW:
100 kDa

Observed MW:
90-100 kDa, 70-80 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
IP 0.5-4.0 ug for IP and 1:200-1:1000 for WB
IHC 1:250-1:1000
IF 1:10-1:100

Applications

Tested Applications:

IF, IHC, IP, ELISA

Cited Applications:

FC, IF, IHC, IP, WB

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat

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:

IP : HeLa cells,

IHC : human placenta tissue, human breast cancer tissue

IF : HepG2 cells,

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 (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: 120kDa full-length form, 90kd mature (processed form that lack the prodomain), 50-68kDa degradation product and 27kDa prodomain.

Notable Publications

Author	Pubmed ID	Journal	Application
Zhuo Zhang	33030286	FEBS Open Bio	WB
Michelle Van Sinderen	26616664	Reprod Fertil Dev	
Junwen Wang	29136943	Biomed Pharmacother	WB, IHC, IF

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

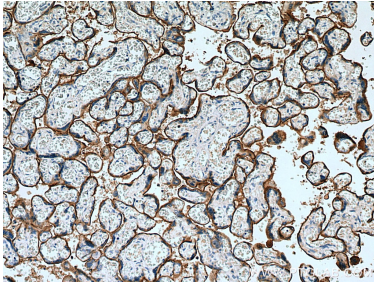
For technical support and original validation data for this product please contact:

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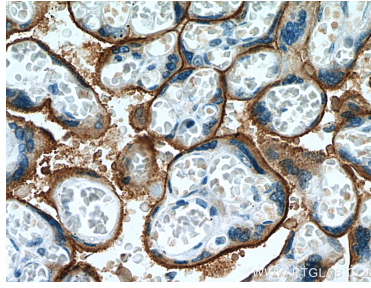
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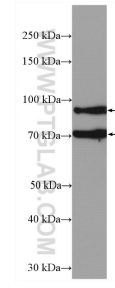
Selected Validation Data



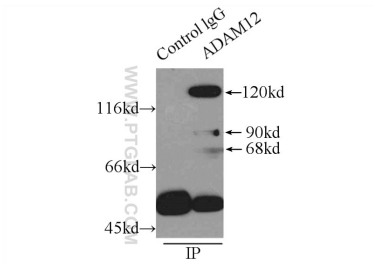
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 14139-1-AP (ADAM12 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



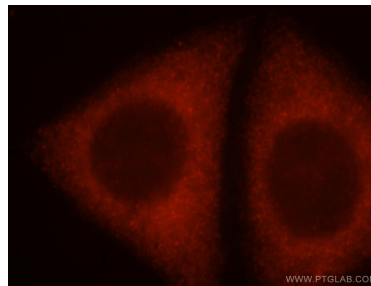
Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 14139-1-AP (ADAM12 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



mouse brain tissue were subjected to SDS PAGE followed by western blot with 14139-1-AP (ADAM12 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP Result of anti-ADAM12 (IP:14139-1-AP, 4 μ g; Detection:14139-1-AP 1:300) with HeLa cells lysate 4650 μ g.



Immunofluorescent analysis of HepG2 cells, using ADAM12 antibody 14139-1-AP at 1:25 and Rhodamine-labeled goat anti-rabbit IgG (red).