

For Research Use Only

CoraLite® Plus 488-conjugated ADAM12 Polyclonal antibody

Catalog Number: CL488-14139

Featured Product



Basic Information

Catalog Number:

CL488-14139

Size:

100ul, Concentration: 1000 µg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG5206

GenBank Accession Number:

BC060804

GeneID (NCBI):

8038

UNIPROT ID:

O43184

Full Name:

ADAM metallopeptidase domain 12

Calculated MW:

100 kDa

Observed MW:

90-100 kDa, 70-80 kDa

Purification Method:

Antigen affinity purification

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

Applications

Tested Applications:

FC (Intra)

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 (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.

Storage

Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

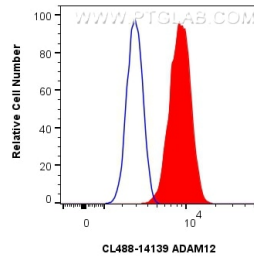
For technical support and original validation data for this product please contact:

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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



1×10^6 HeLa cells were intracellularly stained with 0.4 μ g CoraLite® Plus 488-conjugated ADAM12 Polyclonal antibody (CL488-14139)(red), or 0.4 μ g CoraLite® Plus 488-conjugated Rabbit IgG control Rabbit PolyAb (CL488-30000) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).