

Purified Anti-Human ADAM10 Antibody[11G2]

catalog number: AN003550P

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

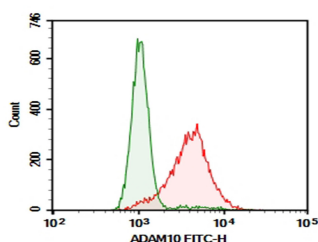
Reactivity	Human
Immunogen	Recombinant Human ADAM10 protein
Host	Mouse
Isotype	Mouse IgG1, κ
Clone	11G2
Purification	>98%, Protein A/G purified
Buffer	Phosphate-buffered solution, pH 7.2, containing 0.05% non-protein stabilizer. Dialyze to completely remove the stabilizer prior to labeling.

Applications

Recommended Dilution

FCM	2 μ g/mL (0.5 \times 10 ⁶ -1 \times 10 ⁶ cells)
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Data



Human peripheral blood lymphocytes were stained with 0.2 μ g Purified Anti-Human ADAM10 Antibody[11G2] (Right) and 0.2 μ g Mouse IgG1, κ Isotype Control (Left), followed by FITC-conjugated Goat Anti-Mouse IgG Secondary Antibody.

Preparation & Storage

Storage	Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze / thaw cycles.
Shipping	Ice bag

Background

ADAM10 (also known as Kuzbanian, mammalian disintegrin metalloprotease, myelin-associated metalloproteinase) is a member of the ADAM family that contains a disintegrin and metalloprotease-like domain. Like other membrane-anchored ADAMs, ADAM10 consists of the following domains, pro with a cysteine switch and furin cleavage sequence, catalytic with the zinc-binding site and Met-turn expected for reprotlysins, disintegrin-like, cysteine-rich, EGF-like, transmembrane, and cytoplasmic. ADAM10 is highly conserved, with 97% amino acid identity between mouse, rat, bovine and human and 45% identity between mouse and Drosophila. The active enzyme processes notch, notch ligand delta, and amyloid protein precursor at the alpha site, playing an important role in neurogenesis. It also processes the 26 kDa membrane-anchored pro-tumor necrosis factor-alpha (TNF-alpha) to the 17 kDa mature TNF-alpha. It cleaves myelin basic protein and type IV collagen. ADAM10 is widely expressed in tissues and resides both on the cell surface and in the cell.

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