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## ADAM12 Rabbit pAb

Catalog Number: bs-5847R

Target Protein: ADAM12

Concentration: 1mg/ml

Form: Liquid

Host: Rabbit

Clonality: Polyclonal

Isotype: IgG

Applications: WB (1:500-2000), Flow-Cyt (3µg/Test)

Reactivity: Human, Mouse (predicted:Rat, Rabbit, Pig, Cow, Chicken, Dog)

Predicted MW: 77/100 kDa

Entrez Gene: 8038

Swiss Prot: O43184

Source: KLH conjugated synthetic peptide derived from human ADAM12: 201-300/909.

Purification: affinity purified by Protein A

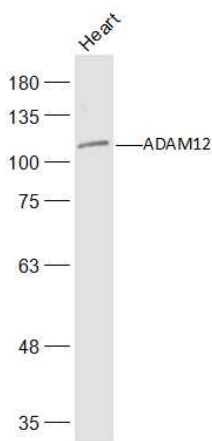
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

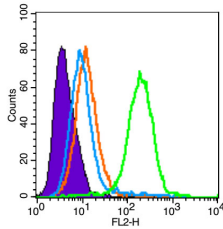
**Background:** ADAM (a disintegrin and metalloprotease) proteins are a family of over 30 membrane-anchored, glycosylated, Zn<sup>2+</sup> dependent proteases that are involved in cell-cell, cell-matrix interface related processes including fertilization, muscle fusion, secretion of TNF?(tumor necrosis factor ?, and modulation of the neurogenic function of Notch and Delta (1-3). ADAM proteins possess a signal-domain, a pro-domain, a metalloprotease domain, a disintegrin domain (Integrin ligand), a cysteine-rich region, an epidermal growth factor-like domain, a transmembrane domain and a cytoplasmic tail (1-3). ADAMs are expressed in brain, testis, epididymis, ovary, breast, placenta, liver, heart, lung, bone, and muscle, and catalyze proteolysis, adhesion, fusion, and intracellular signaling (3). ADAM 12 (Meltrin-a) is produced as 2 differentially spliced isoforms, a 718 amino acid secreted form (ADAM12S) and a 881 amino acid membrane-bound form (ADAM12L), and is involved in egg-sperm fusion (4-6).

### VALIDATION IMAGES

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Sample: Heart (Mouse) Lysate at 40 ug Primary: Anti-ADAM12 (bs-5847R) at 1/500 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 77/100 kD Observed band size: 115 kD



Blank control (Black line): U87MG (Black). Primary Antibody (green line): Rabbit Anti-ADAM12 antibody (bs-5847R) Dilution: 1µg /10<sup>6</sup> cells; Isotype Control Antibody (orange line): Rabbit IgG. Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE Dilution: 1µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature) and then were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

## PRODUCT SPECIFIC PUBLICATIONS

[IF=5.656] Miranda da Costa NM et al. HIF-1α is Overexpressed in Odontogenic Keratocyst Suggesting Activation of HIF-1α and NOTCH1 Signaling Pathways. Cells. 2019 Jul 17;8(7). pii: E731. IHC ; Human . 31319505

[IF=2.2] Rafaela de Albuquerque Dias. et al. ARE HYPOXIA-RELATED PROTEINS ASSOCIATED WITH THE INVASIVENESS OF GLANDULAR ODONTOGENIC CYSTS? A MULTICENTER STUDY. ARCH ORAL BIOL. 2024 Nov;;106151 IHC ; Human . 39644628