

Anti-LFA3 Antibody

Catalog # ABO12782

Product Information

Application	WB, IHC-P, IHC-F, FC, ICC
Primary Accession	P19256
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Lymphocyte function-associated antigen 3(CD58) detection. Tested with WB, IHC-P, IHC-F, ICC, FCM in Human.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	965
Other Names	Lymphocyte function-associated antigen 3, Ag3, Surface glycoprotein LFA-3, CD58, CD58, LFA3
Calculated MW	28147
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, By Heat Immunohistochemistry(Frozen Section), 0.5-1 μ g/ml Immunocytochemistry, 0.5-1 μ g/ml Western blot, 0.1-0.5 μ g/ml Flow Cytometry, 1-3 μ g/1x10 ⁶ cells
Subcellular Localization	Isoform 1: Cell membrane; Single-pass type I membrane protein.
Source	Eukaryota
Protein Name	Lymphocyte function-associated antigen 3
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	E. coli-derived human LFA3 recombinant protein (Position: F29-R215).
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also

be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.

Protein Information

Name	CD58
Synonyms	LFA3
Function	Ligand of the T-lymphocyte CD2 glycoprotein. This interaction is important in mediating thymocyte interactions with thymic epithelial cells, antigen-independent and -dependent interactions of T-lymphocytes with target cells and antigen-presenting cells and the T-lymphocyte rosetting with erythrocytes. In addition, the LFA-3/CD2 interaction may prime response by both the CD2+ and LFA-3+ cells.
Cellular Location	[Isoform 1]: Cell membrane; Single-pass type I membrane protein

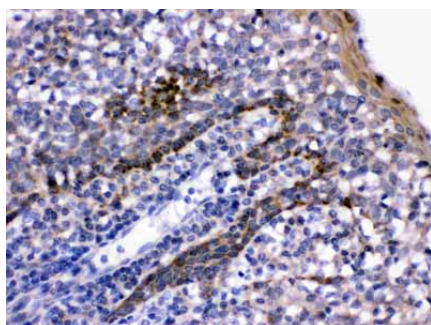
Background

CD58, or lymphocyte function-associated antigen 3 (LFA-3), is a cell adhesion molecule expressed on Antigen Presenting Cells (APC), particularly macrophages. It binds to CD2 (LFA-2) on T cells and is important in strengthening the adhesion between the T cells and Professional Antigen Presenting Cells. This adhesion occurs as part of the transitory initial encounters between T cells and Antigen Presenting Cells before T cell activation, when T cells are roaming the lymph nodes looking at the surface of APCs for peptide:MHC complexes the T-cell receptors are reactive to. The LFA3 gene is mapped to chromosome 1p13, which is the same location as CD2.

Images

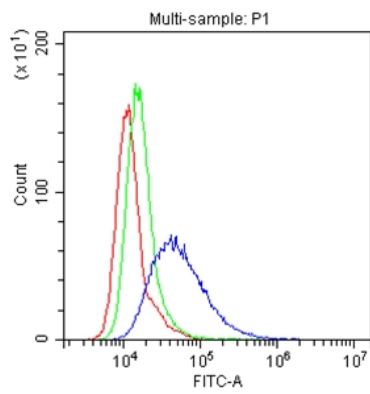


Western blot analysis of LFA3 expression in HELA whole cell lysates (lane 1) and K562 whole cell lysates (lane 2). LFA3 at 35KD was detected using rabbit anti- LFA3 Antigen Affinity purified polyclonal antibody (Catalog # ABO12782) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .



LFA3 was detected in paraffin-embedded sections of human tonsil tissues using rabbit anti- LFA3 Antigen Affinity purified polyclonal antibody (Catalog # ABO12782) at 1 µg/mL. The immunohistochemical section was developed using SABC method .

Figure 3. Flow Cytometry analysis of Hela cells using anti-LFA3 antibody (ABO12782).Overlay histogram showing Hela cells stained with ABO12782 (Blue line).The



cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-LFA3 Antibody (ABO12782, 1 μ g/1x10⁶ cells) for 30 min at 20 $^{\circ}$ C. DyLight⁴⁸⁸ conjugated goat anti-rabbit IgG (BA1127, 5-10 μ g/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 $^{\circ}$ C. Isotype control antibody (Green line) was rabbit IgG (1 μ g/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.