

Anti-LFA3 Antibody
Catalog # ABO12782**Specification****Anti-LFA3 Antibody - 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.

Anti-LFA3 Antibody - Additional Information**Gene ID 965****Other Names**

Lymphocyte function-associated antigen 3, Ag3, Surface glycoprotein LFA-3, CD58, CD58, LFA3

Calculated MW

28147 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, By Heat
Immunohistochemistry(Frozen Section), 0.5-1 µg/ml

 Immunocytochemistry, 0.5-1 µg/ml

Western blot, 0.1-0.5 µg/ml
Flow Cytometry, 1-3 $\frac{1}{4}$ g/1x10⁶cells

Subcellular Localization

Isoform 1: Cell membrane; Single-pass type I membrane protein.

Protein Name

Lymphocyte function-associated antigen 3

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

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 r°Constitution, 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.

Anti-LFA3 Antibody - 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.

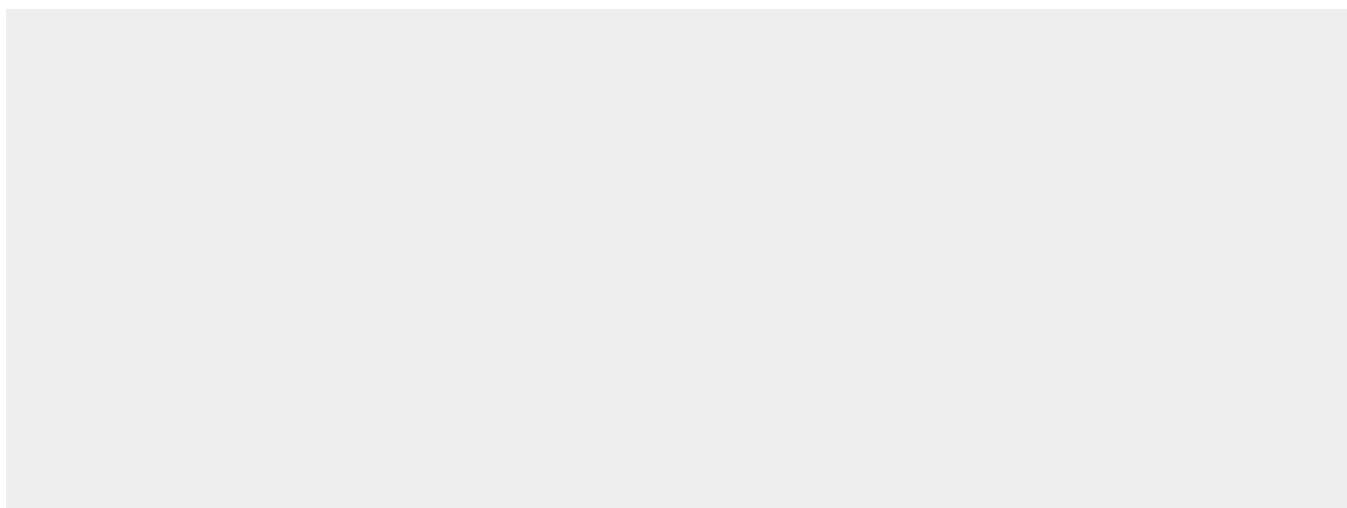
Cellular Location

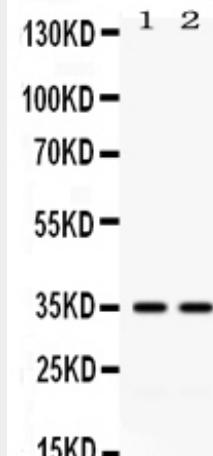
[Isoform 1]: Cell membrane; Single-pass type I membrane protein

Anti-LFA3 Antibody - Protocols

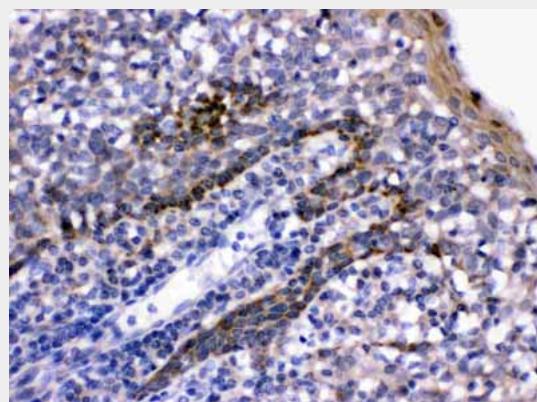
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-LFA3 Antibody - 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 μ g/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 μ g/mL. The immunohistochemical section was developed using SABC method .

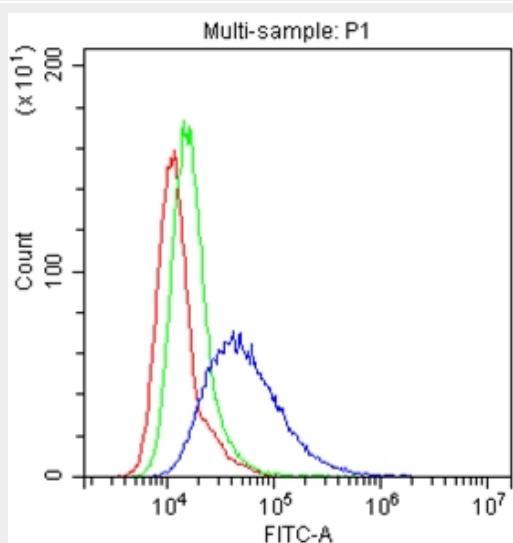


Figure 3. Flow Cytometry analysis of Hela cells using anti-LFA3 antibody (ABO12782). Overlay histogram showing Hela cells stained with ABO12782 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-LFA3 Antibody (ABO12782, 1 $\frac{1}{4}$ g/1x10⁶ cells) for 30 min at 20 $^{\circ}$ C. DyLight[®]488 conjugated goat anti-rabbit IgG (BA1127, 5-10 $\frac{1}{4}$ g/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 $^{\circ}$ C. Isotype control antibody (Green line) was rabbit IgG (1 $\frac{1}{4}$ g/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

Anti-LFA3 Antibody - 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.