10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

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, 1-3Î¼g/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 Cytomety
- Cell Culture

Anti-LFA3 Antibody - Images

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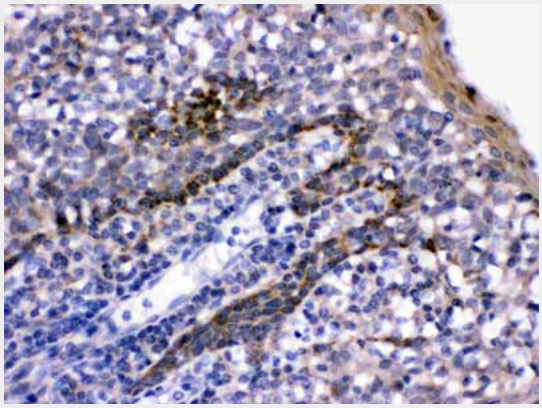
Western blot analysis of LFA3 expression in HELA whole cell lysates (lane 1) and K562 whole cell lysates (lane 2). LFA3 at 35KD was detected using rabbit anti- LFA3 Antigen Affinity purified polyclonal antibody (Catalog # ABO12782) at 0.5 ??g/mL. The blot was developed using chemiluminescence (ECL) method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



LFA3 was detected in paraffin-embedded sections of human tonsil tissues using rabbit anti- LFA3 Antigen Affinity purified polyclonal antibody (Catalog # ABO12782) at 1 Î¼g/mL. The immunohistochemical section was developed using SABC method .

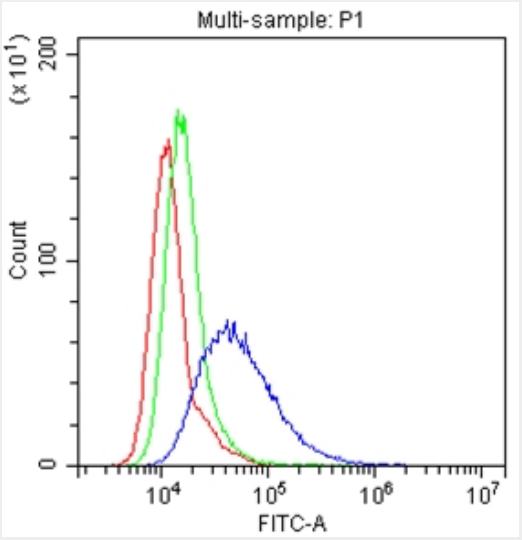


Figure 3. Flow Cytometry analysis of Hela cells using anti-LFA3 antibody (ABO12782).Overlay histogram showing Hela cells stained with ABO12782 (Blue line).The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-LFA3 Antibody (ABO12782,1Î¼g/1x106 cells) for 30 min at 20Â°C. DyLight?488 conjugated goat anti-rabbit IgG (BA1127, 5-10Î¼g/1x106 cells) was used as secondary antibody for 30 minutes at 20Â°C. Isotype control antibody (Green line) was rabbit IgG (1Î¼g/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.