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Datasheet

ITGAX monoclonal antibody, clone BU15 (FITC)

Catalog Number: MAB4350

Regulation Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against native ITGAX.

Clone Name: BU15

Immunogen: Native purified ITGAX from human dendritic cells of synovial fluid.

Host: Mouse

Theoretical MW (kDa): 150

Reactivity: Dog,Human,Monkey

Applications: Flow Cyt, IHC-Fr, IP
(See our web site product page for detailed applications information)

Protocols: See our web site at http://www.abnova.com/support/protocols.asp or product page for detailed protocols

Specificity: This antibody reacts with ITGAX, a 150 KDa integrin expressed mainly on dendritic cells and tissue macrophages.

Form: Liquid

Conjugation: FITC

Isotype: IgG1

Recommend Usage: Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or 10^6 cells in a suspension)
The optimal working dilution should be determined by the end user.

Storage Buffer: In PBS (0.2% BSA, 15 mM sodium azide)

Storage Instruction: Store in the dark at 4°C. Do not freeze.
Avoid prolonged exposure to light.
Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 3687

Gene Symbol: ITGAX

Gene Alias: CD11C, SLEB6

Gene Summary: This gene encodes the integrin alpha X chain protein. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. This protein combines with the beta 2 chain (ITGB2) to form a leukocyte-specific integrin referred to as inactivated-C3b (iC3b) receptor 4 (CR4). The alpha X beta 2 complex seems to overlap the properties of the alpha M beta 2 integrin in the adherence of neutrophils and monocytes to stimulated endothelium cells, and in the phagocytosis of complement coated particles. [provided by RefSeq]

References:

1. Novel tools for functional analysis of CD11c: activation-specific, activation-independent, and activating antibodies. Sadhu C, Hendrickson L, Dick KO, Potter TG, Staunton DE. J Immunoassay Immunochem. 2008;29(1):42-57.
2. Regulation of adhesion of AML14.3D10 cells by surface clustering of beta2-integrin caused by ERK-independent activation of cPLA2. Myou S, Zhu X, Boetticher E, Qin Y, Myo S, Meliton A, Lambertino A, Munoz NM, Hamann KJ, Leff AR. Immunology. 2002 Sep;107(1):77-85.
3. Ligation of CD11b and CD11c beta(2) integrins by antibodies or soluble CD23 induces macrophage inflammatory protein 1alpha (MIP-1alpha) and MIP-1beta production in primary human monocytes through a pathway dependent on nuclear factor-kappaB. Rezzonico R, Imbert V, Chicheportiche R, Dayer JM. Blood. 2001 May 15;97(10):2932-40.