

## Datasheet

### ITGAX monoclonal antibody, clone BU15 (PE)

**Catalog Number:** MAB4352

**Regulatory 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:** PE

**Isotype:** IgG1

**Recommend Usage:** Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or 10<sup>6</sup> cells in a suspension)

The optimal working dilution should be determined by the end user.

**Storage Buffer:** In PBS (0.2% BSA, 0.09% 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.