BioLegend
The path to legendary discovery™

Product Data Sheet

LEAF™ Purified anti-mouse Allergin-1

Catalog # / Size: 141803 / 50 µg
141804 / 500 µg

Clone: TX83

Isotype: Mouse IgG1, κ

Immunogen: Transfected cells expressing allergin-1-Flag

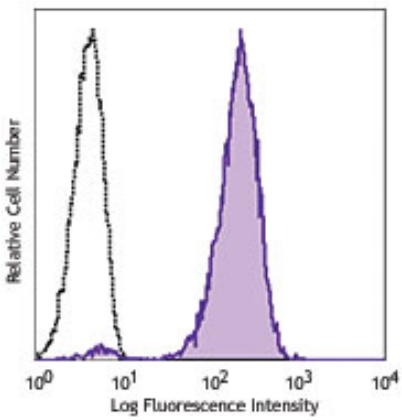
Reactivity: Mouse

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.



Mouse Allergin-1 transfected Ba/F3 cells were stained with purified mAb TX83 (filled histogram) or mouse IgG1, κ isotype control (open histogram), followed by anti-mouse IgG PE.

Applications:

Applications: FC - *Quality tested*
Block - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤1.0 µg per million cells in 100 µl volume or 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Inhibits FcεRI-mediated degranulation in bone marrow-derived cultured mast cells[1]. Additional reported applications (for the relevant formats) include: blocking[1].

Application References:
1. Hitomi K, *et al.* 2010. *Nat. Immunol.* 11:601. (Block)

Description: Allergin-1, also known as mast cell Ag-32, is a 60 kD single pass transmembrane protein. It contains one Ig-like C2-type (immunoglobulin-like) domain in the extracellular region and one immunoreceptor tyrosine-based inhibitory motif (ITIM)-like domain in the cytoplasmic region. Allergin-1 is expressed on mast cells, dendritic cells, and macrophages as well as at low levels on neutrophils. After tyrosine phosphorylation, allergin-1 recruits PTPN6, PTPN11, and INPP5D, which results in a diminution of IgE-mediated degranulation in mast cells. No ligands have been identified for this molecule.

Antigen References:
1. Hitomi K, *et al.* 2010. *Nat. Immunol.* 11:601.
2. Pirozzi G, *et al.* 1995. *J. Immunol.* 155:5811.

Related Products:

Product	Clone	Application
LEAF™ Purified Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC, WB, IP, ICC, IF, FA
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC

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