

Product datasheet

Anti-CD11b antibody [3A33] (PE/Cy7®) ab25506

2 References

Overview

Product name	Anti-CD11b antibody [3A33] (PE/Cy7®)
Description	Rat monoclonal [3A33] to CD11b (PE/Cy7®)
Host species	Rat
Conjugation	PE/Cy7®. Ex: 496nm, Em: 774nm
Specificity	aM subunit of the CD11b/CD18 heterodimer
Tested applications	Suitable for: Flow Cyt, IHC-Fr, IP
Species reactivity	Reacts with: Mouse
Immunogen	Peritoneal macrophages from C57 B1/6 x DBA/2 F1 hybrid mice
General notes	This product or portions thereof is manufactured under license from Carnegie Mellon University under U.S. Patent Number 5,268,486 and related patents. Cy and CyDye are trademarks of GE Healthcare Limited.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	Preservative: 0.09% Sodium Azide Constituents: 16% Sucrose, PBS and stabilizing agent.
Purity	IgG fraction
Clonality	Monoclonal
Clone number	3A33
Isotype	IgG2a
Light chain type	kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab25506** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use 0.3µg for 10 ⁶ cells. ab154460 - Rat monoclonal IgG2a, is suitable for use as an isotype control with this antibody.
IHC-Fr		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.

Target

Function

Integrin alpha-M/beta-2 is implicated in various adhesive interactions of monocytes, macrophages and granulocytes as well as in mediating the uptake of complement-coated particles. It is identical with CR-3, the receptor for the iC3b fragment of the third complement component. It probably recognizes the R-G-D peptide in C3b. Integrin alpha-M/beta-2 is also a receptor for fibrinogen, factor X and ICAM1. It recognizes P1 and P2 peptides of fibrinogen gamma chain.

Tissue specificity

Predominantly expressed in monocytes and granulocytes.

Involvement in disease

Genetic variations in ITGAM has been associated with susceptibility to systemic lupus erythematosus type 6 (SLEB6) [MIM:609939]. Systemic lupus erythematosus (SLE) is a chronic, inflammatory and often febrile multisystemic disorder of connective tissue. It affects principally the skin, joints, kidneys and serosal membranes. It is thought to represent a failure of the regulatory mechanisms of the autoimmune system.

Sequence similarities

Belongs to the integrin alpha chain family.
Contains 7 FG-GAP repeats.
Contains 1 VWFA domain.

Domain

The integrin I-domain (insert) is a VWFA domain. Integrins with I-domains do not undergo protease cleavage.

Cellular localization

Membrane.

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