

Product datasheet for **AP31807PU-N**

CD11b (ITGAM) Chicken Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, IHC
Recommended Dilution:	Immunocytochemistry. Immunohistochemistry. <i>Recommended Dilutions: 1/2000-1/5000.</i> Quality Control: This antibody was analyzed by Immunohistochemistry (at 3 µg/ml) using Fluorescein-labeled Goat anti-Chicken IgY (1/500 dilution, Cat.-No AP31795FC-N) or HRP-labeled Goat anti-Chicken IgY (1/2000 dilution, Cat.-No AP31795HR-N) as the secondary reagent.
Reactivity:	Human, Mouse
Host:	Chicken
Isotype:	IgY
Clonality:	Polyclonal
Immunogen:	Synthetic peptide KLH-conjugated corresponding to a sequence shared between the Mouse (NP_001076429.1) and Human gene products (NP_001139280.1). After repeated injections, immune eggs were collected, and the IgY fractions were purified from the yolks.
Specificity:	Recognizes Integrin Alpha-M (MAC-1, OX-42 Antigen).
Formulation:	10mM PBS, pH 7.2 containing 50% Glycerol and 0.02% Sodium Azide as preservative. State: Aff - Purified State: Liquid purified (filter sterilized) IgY fraction.
Concentration:	lot specific
Purification:	Affinity Chromatography using a peptide column.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted in the dark at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	integrin subunit alpha M



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Database Link: [Entrez Gene 16409 Mouse](#)[Entrez Gene 3684 Human](#)
[P11215](#)

Background: Integrin Alpha M (also known as MAC-1 and CD11b) is a 1142 amino acid protein (MAC-1): expressed in various antigen-presenting cells of the immune system, including microglial cells of the central nervous system. This is the same protein that is recognized by the Ox-42 Mouse monoclonal antibody.

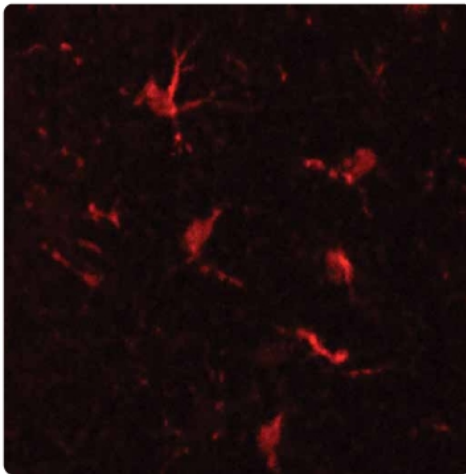
CD11b is implicated in various adhesive interactions of monocytes, macrophages and granulocytes as well as in mediating the uptake of complement coated particles. It is identical to CR3, the receptor for the iC3b fragment of the third complement component. It probably recognizes the RGD peptide in C3b. CD11b is also a receptor for fibrinogen, factor X and ICAM1. It recognizes P1 and P2 peptides of fibrinogen gamma chain. The Mac1 CD11b antigen is present on macrophages, granulocytes, natural killer cells, blood monocytes. CD11b is expressed on 8% spleen cells, 44% bone marrow cells and less than 1% of thymocytes and is commonly used as a microglial marker in nervous tissue.

Synonyms: ITGAM, CR3A, CR-3 alpha chain, Integrin alpha-M, MAC1

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

Protein Pathways: Cell adhesion molecules (CAMs), Hematopoietic cell lineage, Leukocyte transendothelial migration, Regulation of actin cytoskeleton

Product images:



Staining of microglial cells in Mouse cerebral cortex (red) using MAC-1 antibody. Photo courtesy of Dr. Felix Eckenstein, University of Vermont.