

CD11b
Rabbit Monoclonal antibody(Mab)
Catalog # AD80462**Specification****CD11b - Product info**

Application	IHC-P
Primary Accession	P11215
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal
Calculated MW	127179

CD11b - Additional info

Gene ID	3169
Gene Name	FOXA1

Other Names

Integrin alpha-M, CD11 antigen-like family member B, CR-3 alpha chain, Cell surface glycoprotein MAC-1 subunit alpha, Leukocyte adhesion receptor MO1, Neutrophil adherence receptor, CD11b, ITGAM, CD11B, CR3A

Dilution

IHC-P~~Ready-to-use

Storage

Maintain refrigerated at 2-8°C

Precautions

FOX A1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

CD11b - Protein Information**Name** ITGAM ([HGNC:6149](#))**Synonyms****Function****HNF3A, TCF3A**

Transcription factor that is involved in embryonic development, establishment of tissue-specific gene expression and regulation of gene expression in differentiated tissues. Is thought to act as a 'pioneer' factor opening the compacted chromatin for other proteins through interactions with nucleosomal core histones and thereby replacing linker histones at target enhancer and/or promoter sites. Binds DNA with the consensus sequence

5'-[AC]A[AT]T[AG]TT[GT][AG][CT]T[CT]-3'
(By similarity). Proposed to play a role in translating the epigenetic signatures into cell type-specific enhancer-driven transcriptional programs. Its differential recruitment to chromatin is dependent on distribution of histone H3 methylated at 'Lys-5' (H3K4me2) in estrogen-regulated genes. Involved in the development of multiple endoderm-derived organ systems such as liver, pancreas, lung and prostate; FOXA1 and FOXA2 seem to have at least in part redundant roles (By similarity). Modulates the transcriptional activity of nuclear hormone receptors. Is involved in ESR1-mediated transcription; required for ESR1 binding to the NKX2-1 promoter in breast cancer cells; binds to the RPRM promoter and is required for the estrogen-induced repression of RPRM. Involved in regulation of apoptosis by inhibiting the expression of BCL2. Involved in cell cycle regulation by activating expression of CDKN1B, alone or in conjunction with BRCA1. Originally described as a transcription activator for a number of liver genes such as AFP, albumin, tyrosine aminotransferase, PEPCK, etc. Interacts with the cis-acting regulatory regions of these genes.

Involved in glucose homeostasis.

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00089,

ECO:0000269|PubMed:15987773,

ECO:0000269|PubMed:16331276}

Highly expressed in prostate and ESR1-positive breast tumors.

Overexpressed in esophageal and lung adenocarcinomas.

Cellular Location

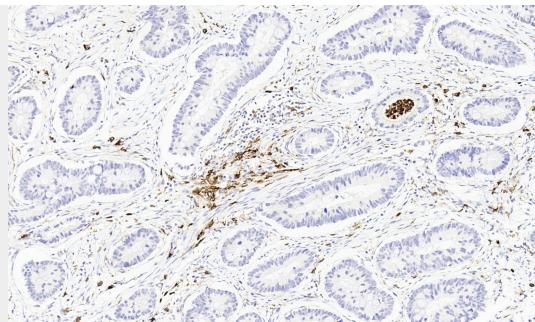
Tissue Location

CD11b - Protocols

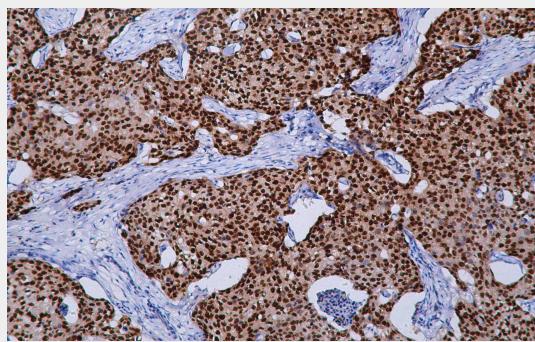
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CD11b - Images



Colon cancer



Immunohistochemical analysis of paraffin-embedded breast cancer tissue using AD80238 performed on the Abcarta® FAIP-30 Fully automated IHC platform. Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(Ready-to-use) for 15 min at room temperature. AmpSee™ Detection Systems Abcepta:ADR005 was used as the secondary antibody.