Datasheet for ABIN5693169

anti-CD11c antibody (AA 161-342)

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Overview

Quantity:	100 µg
Target:	CD11c (ITGAX)
Binding Specificity:	AA 161-342
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CD11c antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Western Blotting (WB), ELISA

Product Details

Brand:	Picoband™
Immunogen:	E. coli-derived human CD11c recombinant protein (Position: S161-T342).
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for CD11c detection. Tested with WB, IHC-P, Direct ELISA in Human,Mouse.

Target Details

Target:	CD11c (ITGAX)
Alternative Name:	ITGAX (ITGAX Products)
Background:	Synonyms: Integrin alpha-X, CD11 antigen-like family member C, Leu M5, Leukocyte adhesion

Target Details

	glycoprotein p150,95 alpha chain, Leukocyte adhesion receptor p150,95, CD11c, ITGAX, CD11C Tissue Specificity: Predominantly expressed in monocytes and granulocytes. Background: CD11c, also known as Integrin, alpha X (complement component 3 receptor 4 subunit) (ITGAX), is a genethat encodes for CD11c. 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. Two transcript variants encoding different isoforms have been found for this gene.
UniProt:	P20702
Pathways:	Complement System, Activated T Cell Proliferation, Integrin Complex

Application Details

Application Notes:	Recommended Detection Systems: Enhanced Chemiluminescent Kit with anti-Rabbit IgG (ABIN921124) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P). Application Details: Western blot, 0.1-0.5 µg/mL Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/mL Direct ELISA, 0.1-0.5 µg/mL
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na_2HPO_4, 0.05 mg NaN_3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month.

Handling

It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

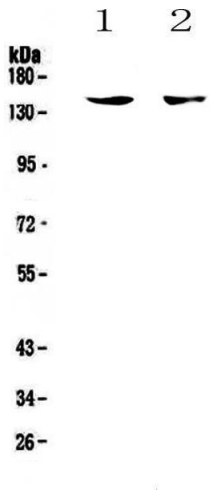
Publications

Product cited in:

Mu, Jing, Guo: "Expressions of CD11a, CD11b, and CD11c integrin proteins in rats with myocardial hypertrophy." in: **Iranian journal of basic medical sciences**, Vol. 17, Issue 11, pp. 874-8, (2015) (PubMed).

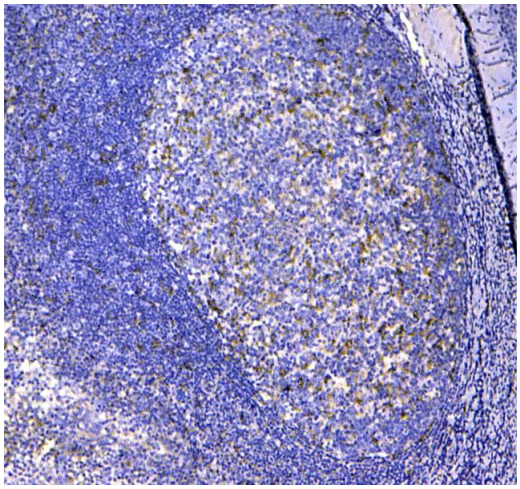
Huang, Zhu, Zhang, Zhu, Liu, Zhu, Wang, Li, Yang, Dong, Liu, Chen, Zhang, Yang, Deng, Fan, Wang, Liu, Ma, Fu, Wu: "S100+ cells: a new neuro-immune cross-talkers in lymph organs." in: **Scientific reports**, Vol. 3, pp. 1114, (2013) (PubMed).

Images



Western Blotting

Image 1. Western blot analysis of CD11c using anti-CD11c antibody . Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane 1: mouse spleen tissue lysate, Lane 2: mouse thymus tissue lysate. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-CD11c antigen affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for CD11c at approximately 150KD. The expected band size for CD11c is at 128KD.



Immunohistochemistry

Image 2. IHC analysis of CD11c using anti-CD11c antibody . CD11c was detected in paraffin-embedded section of human tonsil tissue . Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml rabbit anti-CD11c Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.