



Datasheet for ABIN669411

anti-Integrin beta 2 antibody (AA 701-770)



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Overview

Quantity:	100 µL
Target:	Integrin beta 2 (ITGB2)
Binding Specificity:	AA 701-770
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Integrin beta 2 antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Integrin beta 2
Isotype:	IgG
Cross-Reactivity:	Human, Rat
Predicted Reactivity:	Mouse,Cow,Sheep,Pig,Horse
Purification:	Purified by Protein A.

Target Details

Target:	Integrin beta 2 (ITGB2)
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Target Details

Alternative Name:	CD18 (ITGB2 Products)
Background:	<p>Synonyms: LAD, CD18, MF17, MFI7, LCAMB, LFA-1, MAC-1, Integrin beta-2, Cell surface adhesion glycoproteins LFA-1/CR3/p150,95 subunit beta, Complement receptor C3 subunit beta, ITGB2</p> <p>Background: Integrin alpha-L/beta-2 is a receptor for ICAM1, ICAM2, ICAM3 and ICAM4. Integrins alpha-M/beta-2 and alpha-X/beta-2 are receptors for the iC3b fragment of the third complement component and for fibrinogen. Integrin alpha-X/beta-2 recognizes the sequence G-P-R in fibrinogen alpha-chain. Integrin alpha-M/beta-2 recognizes P1 and P2 peptides of fibrinogen gamma chain. Integrin alpha-M/beta-2 is also a receptor for factor X. Integrin alpha-D/beta-2 is a receptor for ICAM3 and VCAM1. Triggers neutrophil transmigration during lung injury through PTK2B/PYK2-mediated activation.</p>
Gene ID:	3689
UniProt:	P05107
Pathways:	NF-kappaB Signaling , Activation of Innate immune Response , Toll-Like Receptors Cascades , Activated T Cell Proliferation

Application Details

Application Notes:	ELISA 1:500-1000 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200 ICC 1:100-500
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be

Handling

handled by trained staff only.

Storage: 4 °C,-20 °C

Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

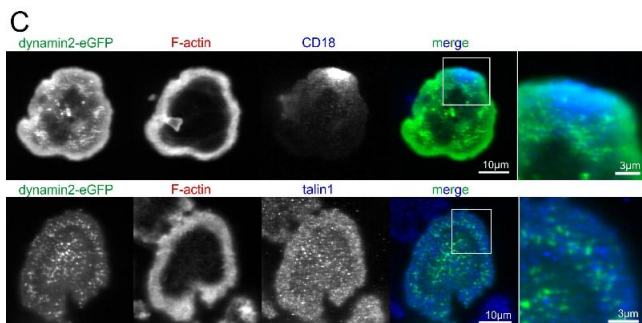
Expiry Date: 12 months

Publications

Product cited in: Eppler, Quast, Kolanus: "Dynamin2 controls Rap1 activation and integrin clustering in human T lymphocyte adhesion." in: **PLoS ONE**, Vol. 12, Issue 3, pp. e0172443, (2017) ([PubMed](#)).

Chenna Narendra, Chalise, Magnusson, Uppugunduri: "Local but Not Systemic Administration of Uridine Prevents Development of Antigen-Induced Arthritis." in: **PLoS ONE**, Vol. 10, Issue 10, pp. e0141863, (2015) ([PubMed](#)).

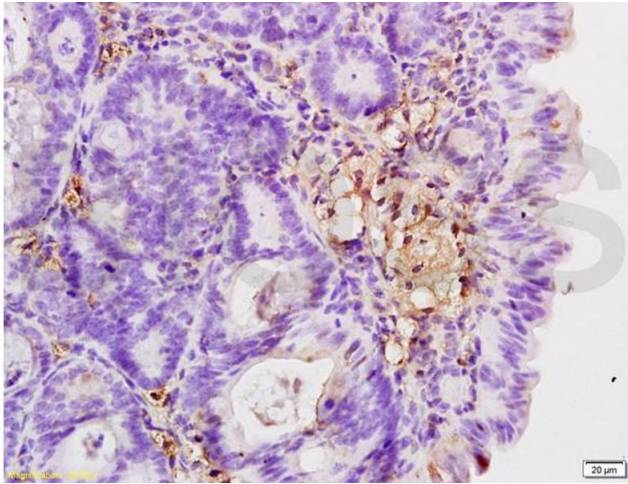
Images



Immunofluorescence (Cultured Cells)

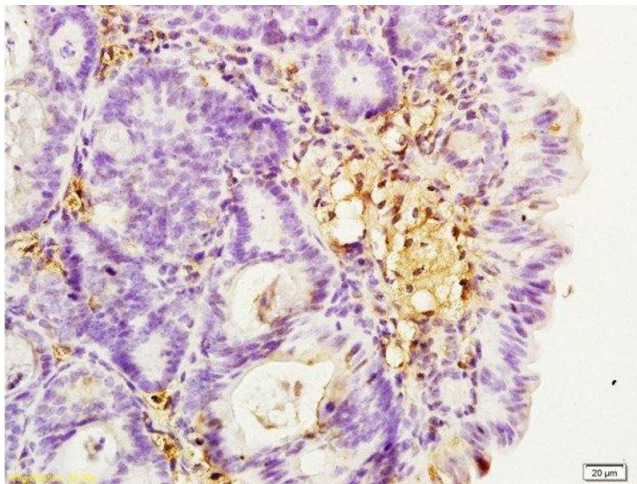
Image 1. Dynamin2 eGFP colocalizes with and regulates the activity of different signaling molecules at the basal plasma membrane.(A,C) Dynamin2 eGFP was overexpressed in Jurkat E6.1 T cells. Cells were seeded on a surface coated with ICAM-1-Fc and activating anti-CD3 (10 µg/mL) and anti-CD28 (20 µg/mL) antibodies for 15 min. After fixation, F-actin was labeled using TRITC-phalloidin and immunofluorescence staining of the following proteins was performed: phosphorylated focal adhesion kinase (FAK, Tyr397), phosphorylated protein tyrosine kinase 2 (Pyk2, Tyr402), phosphorylated SRC family kinases (SFks, Tyr416 or equivalent), CD18, talin1. Images were acquired using a confocal laser scanning microscope with focus on the basal plasma membrane. (B) Western blot analysis of Jurkat E6.1 T cells or primary human CD4+ T cells which were either treated with dynasore to inhibit dynamin2 activity or with DMSO as a solvent control. Cells were seeded on either

uncoated, ICAM-1-Fc-coated or ICAM-1-Fc/anti-CD3/anti-CD28-coated surfaces for 15 min. Phosphorylation of FAK and Pyk2 were analyzed. - figure provided by CiteAb. Source: PMID28273099



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded rat colitis tissue labeled with Anti-Integrin β 2/CD18/LFA-1 Polyclonal Antibody, Unconjugated (ABIN669411) at 1:200, followed by conjugation to the secondary antibody and DAB staining



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Formalin-fixed and paraffin embedded rat colitis tissue labeled with Anti-Integrin β 2/CD18/LFA-1 Polyclonal Antibody, Unconjugated at 1:200, followed by conjugation to the secondary antibody and DAB staining