

Anti-Integrin beta 1 ITGB1 Rabbit Monoclonal Antibody

Catalog Number: M00772-1

About ITGB1

Dynamin-related GTPase required for mitochondrial fusion and regulation of apoptosis. May form a diffusion barrier for proteins stored in mitochondrial cristae. Proteolytic processing in response to intrinsic apoptotic signals may lead to disassembly of OPA1 oligomers and release of the caspase activator cytochrome C (CYCS) into the mitochondrial intermembrane space.

Overview

Product Name	Anti-Integrin beta 1 ITGB1 Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Integrin beta 1 ITGB1 Rabbit Monoclonal Antibody catalog # M00772-1. Tested in WB, IHC applications. This antibody reacts with Human, Mouse, Rat.
Application	IHC, WB
Clonality	Monoclonal DDI-9
Formulation	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P05556

Technical Details

Immunogen	A synthesized peptide derived from human Integrin beta 1
Isotype	Rabbit IgG
Form	Liquid
Concentration	Actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Affinity-chromatography
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used:

	WB 1:500-1:2000 IHC 1:100-1:500
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Anti-Integrin beta 1 ITGB1 Rabbit Monoclonal Antibody (M00772-1) Images

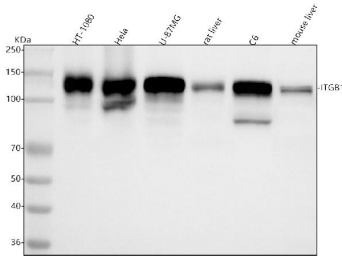


Figure 1. Western blot analysis of Integrin beta 1 using anti-Integrin beta 1 antibody (M00772-1).

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 30 ug of sample under reducing conditions.

Lane 1: human HT-1080 whole cell lysates,

Lane 2: human Hela whole cell lysates,

Lane 3: human U-87MG whole cell lysates,

Lane 4: rat liver tissue lysates,

Lane 5: rat C6 whole cell lysates,

Lane 6: mouse liver tissue lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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-Integrin beta 1 antigen affinity purified monoclonal antibody (Catalog # M00772-1) at 1:500 overnight at 4°C, then

washed with TBS-0.1%Tween 3 times with 5 minutes each

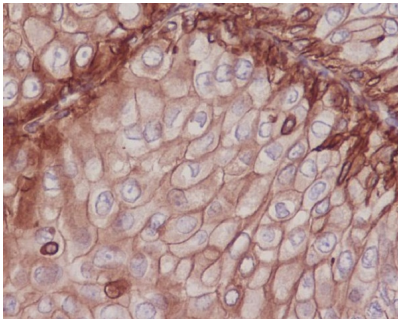
and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:500 for 1.5 hour at RT. The signal

is developed using an Enhanced Chemiluminescent

detection (ECL) kit (Catalog # EK1002) with Tanon 5200

system. A specific band was detected for Integrin beta 1 at approximately 140 kDa. The expected band size for Integrin

beta 1 is at 88 kDa.



Immunohistochemical analysis of paraffin-embedded human breast cancer, using Integrin beta 1 Antibody.

6 Publications Citing This Product

1. PubMed ID: 22211239, Yin D, Tian L, Ye Y, Li K, Wang J, Cheng P, Chen A, Guo F, Huang H. Int J Mol Med. 2012 Apr;29(4):587-92. Doi: 10.3892/ijmm.2011.871. Epub 2011 Dec 29. Nanog And β -Catenin: A New Convergence Point In EpSC Proliferation And Differentiation.

2. PubMed ID: 26616638, Isolation and morphological characterization of ovine amniotic fluid mesenchymal stem cells

3. PubMed ID: 24465646, Lin H, Yang Y, Wang Y, Wang L, Zhou X, Liu J, Peng D. Plos One. 2014 Jan 21;9(1):E85672. Doi: 10.1371/Journal.Pone.0085672. Ecollection 2014. Effect Of Mixed Transplantation Of Autologous And Allogeneic Microskin Grafts On Wound Healing In A Rat M...

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