10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ITGB1BP3 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2791a

Product Information

Application	WB, IHC-P, E
Primary Accession	Q9NPI5
Other Accession	Q9D7C9
Reactivity	Human, Rat, Mouse
Predicted	Mouse, Bovine, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB15064
Calculated MW	26046
Antigen Region	27-55

Additional Information

Gene ID	27231
Other Names	Nicotinamide riboside kinase 2, NRK 2, NmR-K 2, Integrin beta-1-binding protein 3, Muscle integrin-binding protein, MIBP, Nicotinic acid riboside kinase 2, Ribosylnicotinamide kinase 2, RNK 2, Ribosylnicotinic acid kinase 2, NMRK2, ITGB1BP3, NRK2
Target/Specificity	This ITGB1BP3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 27-55 amino acids from the N-terminal region of human ITGB1BP3.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ITGB1BP3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	NMRK2

Synonyms	ITGB1BP3, NRK2
Function	Catalyzes the phosphorylation of nicotinamide riboside (NR) and nicotinic acid riboside (NaR) to form nicotinamide mononucleotide (NMN) and nicotinic acid mononucleotide (NaMN). Reduces laminin matrix deposition and cell adhesion to laminin, but not to fibronectin. Involved in the regulation of PXN at the protein level and of PXN tyrosine phosphorylation. May play a role in the regulation of terminal myogenesis.
Tissue Location	Predominantly expressed in skeletal muscle and, at a much lower level, in the heart (at protein level). No expression in brain, kidney, liver, lung, pancreas nor placenta

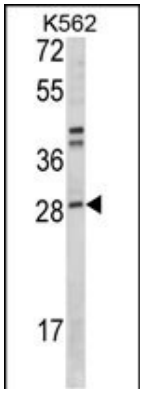
Background

ITGB1BP3 catalyzes the phosphorylation of nicotinamide riboside (NR) and nicotinic acid riboside (NaR) to form nicotinamide mononucleotide (NMN) and nicotinic acid mononucleotide (NaMN). The protein reduces laminin matrix deposition and cell adhesion to laminin, but not to fibronectin. It is involved in the regulation of PXN at the protein level and of PXN tyrosine phosphorylation and may play a role in the regulation of terminal myogenesis.

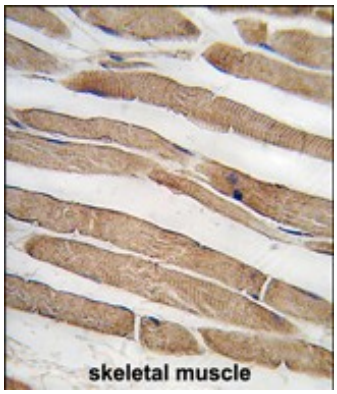
References

Bieganowski,P., Cell 117 (4), 495-502 (2004)
Li,J., J. Cell Biol. 147 (7), 1391-1398 (1999)

Images



Western blot analysis of ITGB1BP3 Antibody (N-term) (Cat. #AP2791a) in K562 cell line lysates (35ug/lane). ITGB1BP3 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human skeletal muscle tissue reacted with ITGB1BP3 antibody (N-term) (Cat.#AP2791a), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.