

[Primary Antibody]



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— DATASHEET

Host: Rabbit

Isotype: IgG

Clonality: Polyclonal

GeneID: 3679

SWISS: 013683

Target: ITGA7

Immunogen: KLH conjugated synthetic peptide derived from human Integrin alpha-7 70 kDa form: 701-800/1181. < Extracellular >

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

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

Background: The protein encoded by this gene belongs to the integrin alpha chain family. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. They mediate a wide spectrum of cell-cell and cell-matrix interactions, and thus play a role in cell migration, morphologic development, differentiation, and metastasis. This protein functions as a receptor for the basement membrane protein laminin-1. It is mainly expressed in skeletal and cardiac muscles and may be involved in differentiation and migration processes during myogenesis. Defects in this gene are associated with congenital myopathy. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Feb 2009]

Applications: WB (1:500-2000)

IHC-P (1:100-500)

IHC-F (1:100-500)

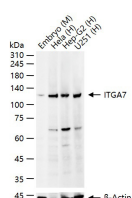
IF (1:100-500)

Reactivity: Human, Mouse, Rat

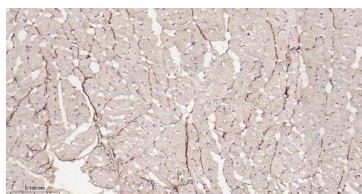
Predicted MW.: 70/101/125 kDa

Subcellular Location: Cell membrane

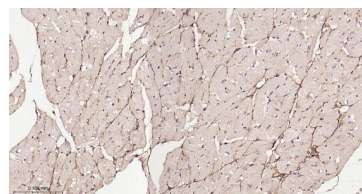
— VALIDATION IMAGES



25 ug total protein per lane of various lysates (see on figure) probed with ITGA7 polyclonal antibody, unconjugated (bs-1816R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Rat Heart; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with ITGA7 Polyclonal Antibody, Unconjugated (bs-1816R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded
Mouse Heart; Antigen retrieval by boiling in
sodium citrate buffer (pH6.0) for 15 min;
Antibody incubation with ITGA7 Polyclonal
Antibody, Unconjugated (bs-1816R) at 1:200
overnight at 4°C, followed by conjugation to the
bs-0295S-HRP and DAB (C-0010) staining.

— SELECTED CITATIONS

- **[IF=7.666]** Elisabetta Botticelli. et al. $\alpha 7$ Nicotinic Acetylcholine Receptors May Improve Schwann Cell Regenerating Potential via Metabotropic Signaling Pathways. CELLS-BASEL. 2023 Jan;12(11):1494 WB ;Rat. 37296615
- **[IF=4.9]** Leonard M Eisenberg. et al. Stem Cells Associated with Adult Skeletal Muscle Can Form Beating Cardiac Tissue In Vitro in Response to Media Containing Heparin, Dexamethasone, Growth Factors and Hydrogen Peroxide.. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 2025 Mar 17;26(6):2683. IHC, IF ; Mouse. 40141327
- **[IF=5.162]** Lianbao Kan. et al. TMT-based quantitative proteomic analysis of antitumor mechanism of Sporisorium

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

reilianum polysaccharide WM-NP-60 against HCT116 cells. Int J Biol Macromol. 2020 Dec;165:1755 WB ;Human. 33068624

- **[IF=4.6]** Jianjun Wang. et al. Promoter hypermethylation-induced downregulation of ITGA7 promotes colorectal cancer proliferation and migration by activating the PI3K/AKT/NF-κB pathway. BBA-MOL CELL RES. 2024 Oct;1871:119785 WB ;Human. 38885843
- **[IF=3.97]** Tang, Yi, et al. "ART1 promotes starvation-induced autophagy: a possible protective role in the development of colon carcinoma." American Journal of Cancer Research 2015;5(2):498-513 WB ;="Mouse". 25973293