

Rabbit Integrin alpha 3/ITGA3 Polyclonal Antibody | anti-ITGA3 antibody

Anti-Integrin alpha 3/ITGA3 Antibody

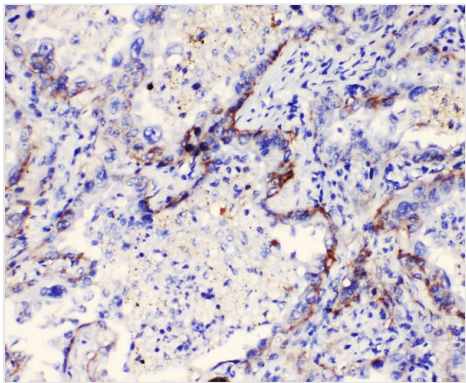
CATALOG # AAA124945	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

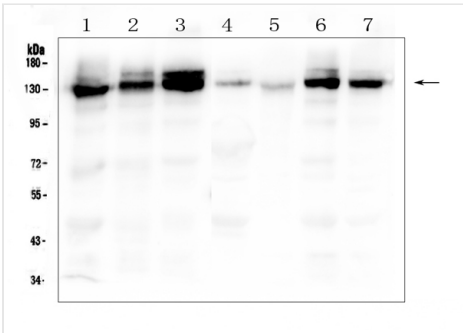
Integrin alpha 3/ITGA3; Polyclonal Antibody; Anti-Integrin alpha 3/ITGA3 Antibody; Integrin alpha-3; CD49 antigen-like family member C; FRP-2; Galactoprotein B3; GAPB3; VLA-3 subunit alpha; CD4 degree C; Integrin alpha-3 heavy chain; Integrin alpha-3 light chain; ITGA3; MSK18; Integrin subunit alpha 3; anti-ITGA3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	No cross reactivity with other proteins.
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized
Sequence Length	1,066
Applicable Applications for anti-ITGA3 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence of human Integrin alpha 3 (YSVALHRQTERQQRYLLLAGAPRELAVPDGYTNR).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Relevant Detection Systems	It is recommended to use an Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC-P.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



IHC (Immunohistochemistry)
Figure 3. IHC analysis of Integrin alpha 3 using anti-Integrin alpha 3 antibody. Integrin alpha 3 was detected in paraffin-embedded section of human lung cancer 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 1ug/ml rabbit anti-Integrin alpha 3 antibody. Integrin alpha 3 was detected in paraffin-embedded section of human lung cancer 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 1ug/ml rabbit anti-Integrin alpha 3 antibody. Integrin alpha 3 was detected in paraffin-embedded section of human lung cancer 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 1ug/ml rabbit anti-Integrin alpha 3 Antibody overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)
Figure 1. Western blot analysis of Integrin alpha 3 using anti-Integrin alpha 3 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: human A549 whole cell lysate, Lane 2: human PC-3 whole cell lysate, Lane 3: human A431 whole cell lysate, Lane 4: human placenta tissue lysates, Lane 5: human SHG-44 whole cell lysate, Lane 6: human U2OS whole cell lysate, Lane 7: human Hela whole cell 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-Integrin alpha 3 antigen affinity purified polyclonal antibody at 0.5 ug/ml overnight at 4 degree 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 with Tanon 5200 system. A specific band was detected for Integrin alpha 3 at approximately 130KD. The expected band size for Integrin alpha 3 is at 116KD.

ADDITIONAL INFORMATION

Related Product Information for anti-ITGA3 antibody	Description: Rabbit IgG polyclonal antibody for Integrin alpha 3 detection. Tested with WB, IHC-P in Human; Mouse; Rat. Background: ITGA3 (INTEGRIN, ALPHA-3), also called CD4 degree C, VLA3 or GAPB3, is a protein that in humans is encoded by the ITGA3 gene. It is an integrin alpha subunit which is also a member of the family of cell surface adhesion molecules. This gene is mapped to chromosome 17 and its exact cytogenetic location is 17q21.33. ITGA3 makes up half of the alpha3beta1 integrin duplex that plays a role in neural migration and corticogenesis together with beta-1 subunit. A functional link between DAB1 phosphorylation and ITGA3 signaling drives the timely detachment of migrating neurons from radial glial fibers. Expression of human ITGA3 increased the infectivity of virus for Chinese hamster ovary cells. ITGA3 also contains 13 potential N-glycosylation sites, 2 potential cleavage sites, and the 7 N-terminal repeating units characteristic of ITGAs. Recombinant ITGA3 is expressed as a 150-kD protein as the same size as the native protein by the western blot analysis.
References	1. Akula, S. M., Pramod, N. P., Wang, F.-Z., Chandran, B. Integrin alpha-3/beta-1 (CD 4 degree C/29) is a cellular receptor for Kaposi's sarcoma-associated herpesvirus (KSHV/HHV-8) entry into the target cells. Cell 108: 407-419, 2002. 2. Dulabon, L., Olson, E. C., Taglienti, M. G., Eisenhuth, S., McGrath, B., Walsh, C. A., Kreidberg, J. A., Anton, E. S. Reelin binds alpha-3-beta-1 integrin and inhibits neuronal migration. Neuron 27: 33-44, 2000. 3. Takada Y, Murphy E, Pil P, Chen C, Ginsberg MH, Hemler ME (Oct 1991). "Molecular cloning and expression of the cDNA for alpha 3 subunit of human alpha 3 beta 1 (VLA-3), an integrin receptor for fibronectin, laminin, and collagen".

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504747
NCBI GeneID	3675
NCBI Accession #	NP_002195.1

NCBI GenBank Nucleotide #	NM_002204.4
UniProt Accession #	P26006; A7E246; B7ZM80; B9EGQ1; D3DTX4; D3DTX5
Molecular Weight	118,756 Da
NCBI Official Full Name	integrin alpha-3 preproprotein
NCBI Official Synonym Full Names	integrin subunit alpha 3
NCBI Official Symbol	ITGA3
NCBI Official Synonym Symbols	VL3A; CD49C; FRP-2; GAPB3; ILNEB; MSK18; VCA-2; VLA3a; GAP-B3
NCBI Protein Information	integrin alpha-3
UniProt Protein Name	Integrin alpha-3
UniProt Gene Name	ITGA3
UniProt Synonym Gene Names	MSK18; GAPB3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/integrin-alpha-3-itga3-antibody-immunohistochemistry-western-blot-elisa/124945>