

Rabbit Integrin alpha4 Polyclonal Antibody | anti-ITGA4 antibody

Phospho-Integrin alpha4 (Ser1027) Antibody

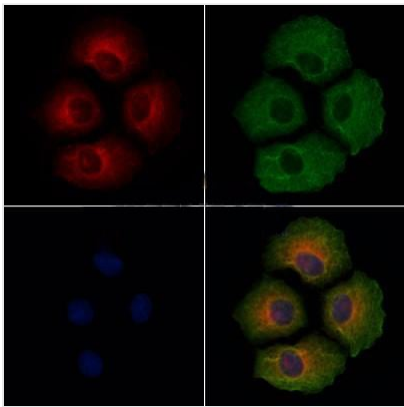
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329664	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Bovine (100%), Horse (86%), Sheep (100%), Rabbit (86%), Dog (86%)	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Integrin alpha4; Polyclonal Antibody; Phospho-Integrin alpha4 (Ser1027) Antibody; 269C wild type; Antigen CD49D; alpha 4 subunit of VLA 4 receptor; CD49 antigen like family member D; CD49 antigen-like family member D; CD49d; IA4; Integrin alpha 4; Integrin alpha 4 subunit; Integrin alpha IV; Integrin alpha-4; Integrin alpha-IV; Integrin; alpha 4 (antigen CD49D; alpha 4 subunit of VLA 4 receptor); ITA4_HUMAN; ITGA4; MGC90518; OTTHUMP00000205320; Very late activation protein 4 receptor; alpha 4 subunit; VLA 4 subunit alpha; VLA-4 subunit alpha; VLA4; anti-ITGA4 antibody

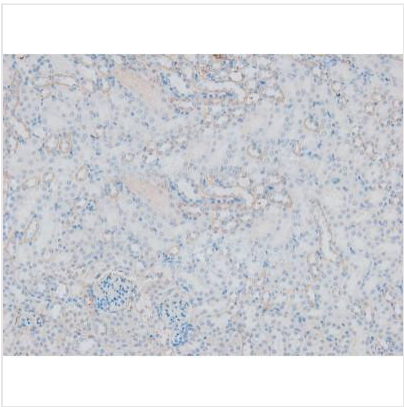
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Bovine (100%), Horse (86%), Sheep (100%), Rabbit (86%), Dog (86%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-Integrin alpha4 (Ser1027) Antibody detects endogenous levels of Integrin alpha4 only when phosphorylated at Ser1027.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-ITGA4 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Integrin alpha4 around the phosphorylation site of Ser1027.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylation on Ser-1027 inhibits PXN binding.
Subunit Structure	Heterodimer of an alpha and a beta subunit. The alpha subunit can sometimes be cleaved into two non-covalently associated fragments. Alpha-4 associates with either beta-1 or beta-7. Alpha-4 interacts with PXN, LPXN, and TGFB11/HIC5. Interacts with CSPG4 through CSPG4 chondroitin sulfate glycosaminoglycan. Interacts with JAML; integrin alpha-4/beta-1 may regulate leukocyte to endothelial cells adhesion by controlling JAML homodimerization. ITGA4:ITGB1 is found in a ternary complex with CX3CR1 and CX3CL1. Interacts with MDK. ITGA4:ITGB1 interacts with MDK; this interaction mediates MDK-induced osteoblast cells migration through PXN phosphorylation.
Similarity	The SG1 motif is involved in binding to chondroitin sulfate glycosaminoglycan and cell adhesion. Belongs to the integrin alpha chain family.
Subcellular Location	Membrane>Single-pass type I membrane protein.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



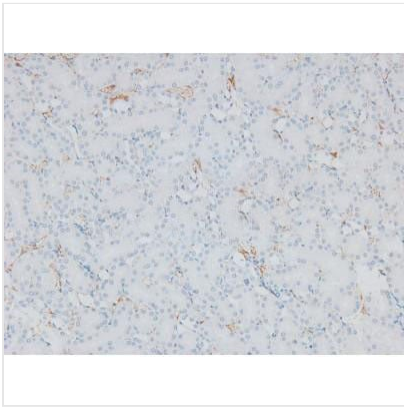
Application Data

At 25 degree C. Samples were then incubated with primary Ab(At 37 degree C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody.The nuclear counter stain is DAPI(blue).



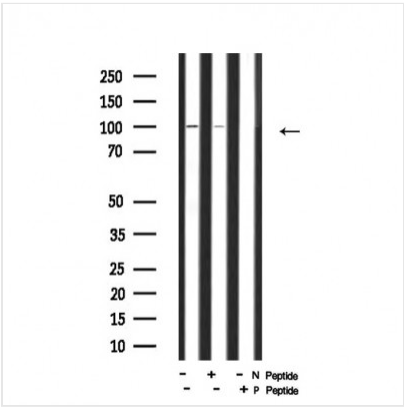
IHC (Immunohistochemistry)

At 1/200 staining Mouse kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

Staining Rat kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis Integrin α 4 (Phospho-Ser1027) using Na3VO4 treated K562 whole cell lysates. -/+ means absence or presence of N peptide(1/4 non-phospho peptide) and P peptide(phospho peptide).

ADDITIONAL INFORMATION

Related Product Information for anti-ITGA4 antibody

Integrins α 4/ β 1 (VLA-4) and α 4/ β 7 are receptors for fibronectin. They recognize one or more domains within the alternatively spliced CS-1 and CS-5 regions of fibronectin. They are also receptors for VCAM1. Integrin α 4/ β 1 recognizes the sequence Q-I-D-S in VCAM1. Integrin α 4/ β 7 is also a receptor for MADCAM1. It recognizes the sequence L-D-T in MADCAM1. On activated endothelial cells integrin VLA-4 triggers homotypic aggregation for most VLA-4-positive leukocyte cell lines. It may also participate in cytolytic T-cell interactions with target cells. ITGA4:ITGB1 binds to fractalkine (CX3CL1) and may act as its coreceptor in CX3CR1-dependent fractalkine signaling. ITGA4:ITGB1 binds to PLA2G2A via a site (site 2) which is distinct from the classical ligand-binding site (site 1) and this induces integrin conformational changes and enhanced ligand binding to site 1.

NCBI AND UNIPROT INFORMATION

NCBI GI #	311033436
NCBI GeneID	3676
UniProt Accession #	P13612; Q7Z4L6; D3DPG4; AAB25486
Molecular Weight	1032
NCBI Official Full Name	Integrin alpha-4

NCBI Official Synonym Full Names	integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor)
NCBI Official Symbol	ITGA4
NCBI Official Synonym Symbols	IA4; CD49D
NCBI Protein Information	integrin alpha-4; 269C wild type; integrin alpha 4; integrin alpha-IV; VLA-4 subunit alpha; integrin alpha-4 subunit; CD49 antigen-like family member D; antigen CD49D, alpha-4 subunit of VLA-4 receptor; very late activation protein 4 receptor, alpha 4 sub
UniProt Protein Name	Integrin alpha-4
UniProt Gene Name	ITGA4
UniProt Synonym Gene Names	CD49D
UniProt Entry Name	ITA4_HUMAN

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-alpha4-antibody-peptide-elisa-immunohistochemistry-western-blot-elisa/329664>