

ITGA4 antibody

Catalog No: #38151



Package Size: #38151-1 50ul #38151-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

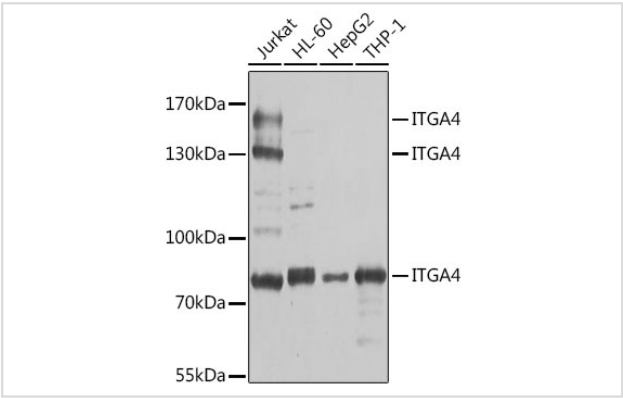
Description

Product Name	ITGA4 antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB,IHC
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous level of total ITGA4 protein.
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human ITGA4.
Target Name	ITGA4
Other Names	ITGA4;CD49D;IA4;MGC90518;
Accession No.	Swiss-Prot#: P13612NCBI Gene ID: 3676
SDS-PAGE MW	115kd
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

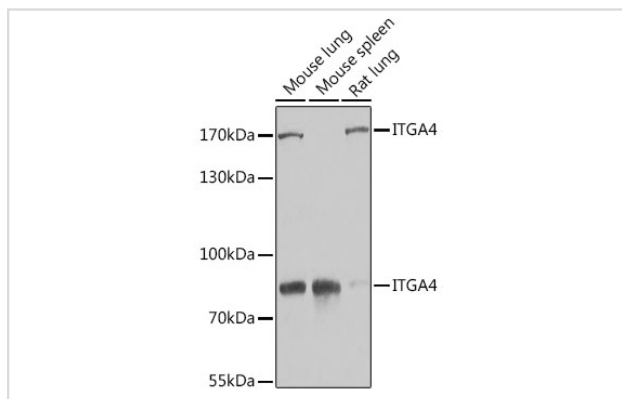
Application Details

WB 1:500 - 1:2000IHC 1:50 - 1:100

Images



Western blot analysis of extracts of various cell lines, using ITGA4 antibody at 1:1000 dilution.



Western blot analysis of extracts of various cell lines, using ITGA4 antibody at 1:1000 dilution.

Background

Integrins are α/β heterodimeric cell surface receptors that play a pivotal role in cell adhesion and migration, as well as in growth and survival (1,2). The integrin family contains at least 18 α and 8 β subunits that form 24 known integrins with distinct tissue distribution and overlapping ligand specificities (3). Integrins not only transmit signals to cells in response to the extracellular environment (outside-in signaling), but also sense intracellular cues to alter their interaction with the extracellular environment (inside-out signaling) (1,2). A pair of important $\alpha 4$ integrins, $\alpha 4\beta 1$ and $\alpha 4\beta 7$, interact with VCAM-1, fibronectin, and MAdCAM-1 at cell adhesions (3). Gene knockout and antibody blocking research reveal that $\alpha 4$ integrins play important roles in embryonic liver and heart development and in fetal lymphocyte homing (4-6). Phosphorylation at Ser988 within the cytoplasmic tail of integrin $\alpha 4$ blocks binding to paxillin and promotes leading edge migration (7,8). On SDS-PAGE, integrin $\alpha 4$ can migrate at several different apparent molecular sizes, a 150 kDa mature protein and a 140 kDa precursor protein (a 180 kDa protein also exists under mild non-reducing conditions) (9). Integrin $\alpha 4$ has a cleavage site at Arg558, which results in a small portion of the protein as either an 80 kDa N-terminal or 70 kDa C-terminal fragment (10).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.