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Datasheet for ABIN7101616

## anti-ITGA4 antibody

### 3 Images

#### Overview

Quantity:	20 µL
Target:	ITGA4
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This ITGA4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP)

#### Product Details

Immunogen:	A synthesized peptide derived from human Integrin alpha 4 (ITGA4/CD49d) (ITGA4/CD49d)
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Monoclonal Antibodies
Purification:	Affinity purification

#### Target Details

Target:	ITGA4
Alternative Name:	ITGA4 ( <a href="#">ITGA4 Products</a> )
Background:	The gene encodes a member of the integrin alpha chain family of proteins. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain that

## Target Details

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function in cell surface adhesion and signaling. The encoded preproprotein is proteolytically processed to generate light and heavy chains that comprise the alpha 4 subunit. This subunit associates with a beta 1 or beta 7 subunit to form an integrin that may play a role in cell motility and migration. This integrin is a therapeutic target for the treatment of multiple sclerosis, Crohn's disease and inflammatory bowel disease. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2015],CD49D, IA4,CDs,Cell Adhesion,Cell Biology & Developmental Biology,Cytoskeleton,G protein signaling,G protein signaling\_G-Protein-Coupled Receptors Signaling to MAPK/Erk,Immunology & Inflammation,MAPK-Erk Signaling Pathway,Neural Stem Cells,PI3K-Akt Signaling Pathway,Signal Transduction,Stem Cells,ITGA4

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Molecular Weight: 150 kDa

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Gene ID: 3676

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UniProt: [P13612](#)

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Pathways: [Integrin Complex](#)

## Application Details

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Application Notes: WB,1:500 - 1:2000,IHC,1:50 - 1:200,IP,1:50 - 1:200

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Restrictions: For Research Use only

## Handling

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Buffer: PBS with 0.02 % sodium azide,0.05 % BSA,50 % glycerol, pH 7.3.

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Preservative: Sodium azide

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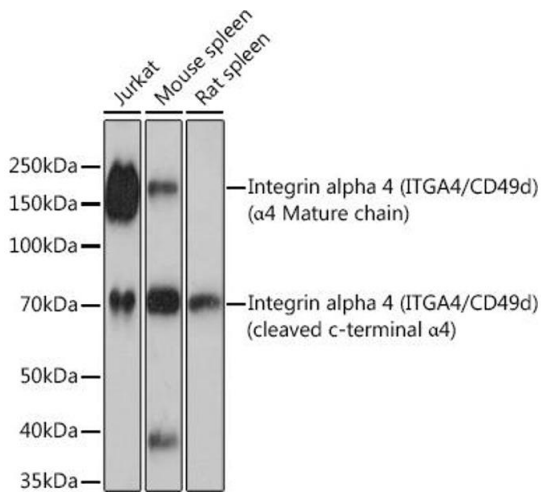
Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Storage: -20 °C

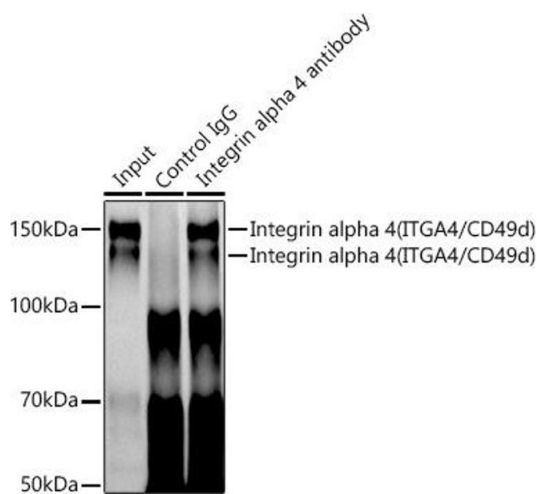
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Storage Comment: Store at -20°C. Avoid freeze / thaw cycles.



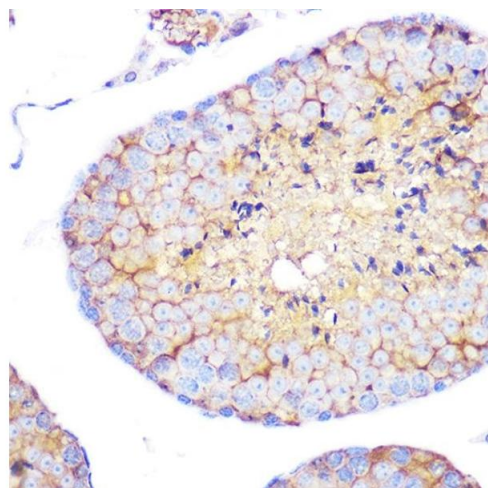
### Western Blotting

**Image 1.** Western blot analysis of extracts of various cell lines, using Integrin alpha 4 (ITG/CD49d) (ITG/CD49d) Rabbit mAb (054) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 3 min.



### Immunoprecipitation

**Image 2.** Immunoprecipitation analysis of 300 µg extracts of Jurkat cells using 3 µg Integrin alpha 4 (ITG/CD49d) antibody (054). Western blot was performed from the immunoprecipitate using Integrin alpha 4 (ITG/CD49d) antibody (054) at a dilution of 1:500.



### Immunohistochemistry

**Image 3.** Immunohistochemistry of paraffin-embedded mouse testis using Integrin alpha 4 (ITG/CD49d) (ITG/CD49d) Rabbit mAb (054) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.