

Integrin $\alpha 2$ Rabbit pAb

CatalogNo: YT5588

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 130kD (Observed)

Isotype

- IgG

Recommended Dilution Ratios

WB 1:500-1:2000

IHC: 1:100-1:300

ELISA 1:10000

IF 1:50-200

Storage

Storage*

-15°C to -25°C/1 year (Do not lower than -25°C)

Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality

Polyclonal

Immunogen Information

Immunogen

The antiserum was produced against synthesized peptide derived from the C-terminal region of human ITGA2. AA range: 1081-1130

Specificity

Integrin $\alpha 2$ Polyclonal Antibody detects endogenous levels of Integrin $\alpha 2$ protein.

Target Information

Gene name ITGA2

Protein Name Integrin alpha-2

Organism	Gene ID	UniProt ID
Human	3673 ;	P17301 ;
Mouse	16398 ;	Q62469 ;

Cellular Localization Membrane; Single-pass type I membrane protein.

Tissue specificity Endothelial cell,Liver,Platelet,

Function Domain:The integrin I-domain (insert) is a VWFA domain. Integrins with I-domains do not undergo protease cleavage.,Function:Integrin alpha-2/beta-1 is a receptor for laminin, collagen, collagen C-propeptides, fibronectin and E-cadherin. It recognizes the proline-hydroxylated sequence G-F-P-G-E-R in collagen. It is responsible for adhesion of platelets and other cells to collagens, modulation of collagen and collagenase gene expression, force generation and organization of newly synthesized extracellular matrix.,polymorphism:Position 534 is associated with platelet-specific alloantigen HPA-5 (Br). HPA-5A/Br(a) has Lys-534 and HPA-5B/Br(b) has Glu-534. HPA-5B is involved in neonatal alloimmune thrombocytopenia (NAIT or NATP). The Lys-534-Glu polymorphism may play a role in coronary artery disease (CAD).,similarity:Belongs to the integrin alpha chain family.,similarity:Contains 1 VWFA domain.,similarity:Contains 7 FG-GAP repeats.,subunit:Heterodimer of an alpha and a beta subunit. Alpha-2 associates with beta-1. Interacts with HPS5 and RAB21. Binds to human echoviruses 1 and 8 capsid proteins and acts as a receptor for these viruses. Interacts (via ITAG2 I-domain) with rotavirus A VP4; this interaction only occurs in rotavirus integrin-dependent strains, for which ITGA2 acts as a receptor.,

| Validation Data

| Contact information

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