

## 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	<a href="#">3673</a> ;	<a href="#">P17301</a> ;
Mouse	<a href="#">16398</a> ;	<a href="#">Q62469</a> ;

**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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