

Integrin $\beta 2$ (Phospho Thr758) Rabbit pAb

CatalogNo: YP1171 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, IF, ELISA

MW

- 170kD (Observed)

Isotype

- IgG

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.

Recommended Dilution Ratios

WB 1:500-2000

IHC 1:50-300

IF 1:200-1:1000

ELISA 5000-1:20000

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human CD18/ITGB2 around the phosphorylation site of Thr758. AA range:720-769

Specificity Phospho-Integrin β 2 (T758) Polyclonal Antibody detects endogenous levels of Integrin β 2 protein only when phosphorylated at T758. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):SA α TT

| Target Information

Gene name ITGB2

Protein Name Integrin beta-2

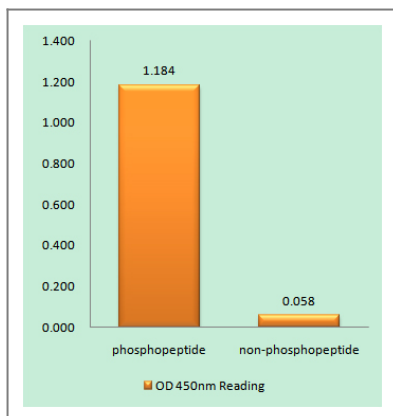
Organism	Gene ID	UniProt ID
Human	3689 ;	P05107 ;
Mouse	16414 ;	P11835 ;

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

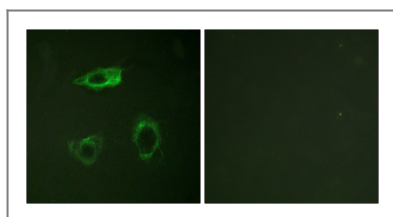
Tissue specificity Leukocytes (PubMed:23775590) . Expressed in neutrophils (at protein level) (PubMed:21193407 , PubMed:28807980) .

Function Disease:Defects in ITGB2 are the cause of leukocyte adhesion deficiency type I (LAD1) [MIM:116920]. LAD1 patients have recurrent bacterial infections and their leukocytes are deficient in a wide range of adhesion-dependent functions. ,Function:Integrin alpha-L/beta-2 is a receptor for ICAM1 , ICAM2 , ICAM3 and ICAM4. Integrins alpha-M/beta-2 and alpha-X/beta-2 are receptors for the iC3b fragment of the third complement component and for fibrinogen. Integrin alpha-X/beta-2 recognizes the sequence G-P-R in fibrinogen alpha-chain. Integrin alpha-M/beta-2 recognizes P1 and P2 peptides of fibrinogen gamma chain. Integrin alpha-M/beta-2 is also a receptor for factor X. Integrin alpha-D/beta-2 is a receptor for ICAM3 and VCAM1. ,online information:ITGB2 mutation db ,PTM:Both Ser-745 and Ser-756 become phosphorylated when T-cells are exposed to phorbol esters. Phosphorylation on Thr-758 (but not on Ser-756) allows interaction with 14-3-3 proteins. ,similarity:Belongs to the integrin beta chain family. ,similarity:Contains 1 VWFA domain. ,subunit:Heterodimer of an alpha and a beta subunit. Beta-2 associates with either alpha-L , alpha-M , alpha-X or alpha-D. Interacts with COPS5 and RANBP9. ,

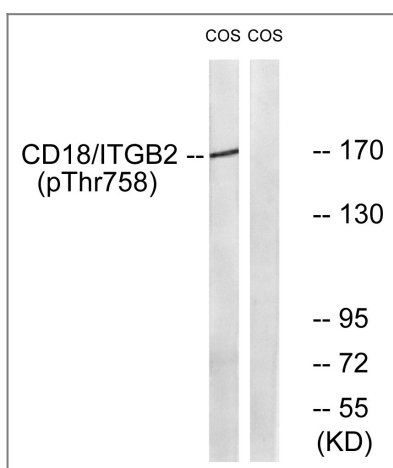
| Validation Data



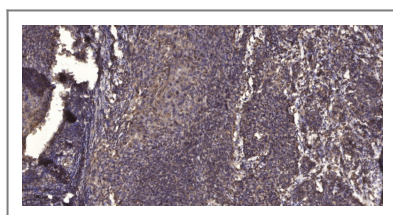
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using CD18/ITGB2 (Phospho-Thr758) Antibody



Immunofluorescence analysis of HepG2 cells, using CD18/ITGB2 (Phospho-Thr758) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from COS7 cells treated with EGF 200ng/ml 30', using CD18/ITGB2 (Phospho-Thr758) Antibody. The lane on the right is blocked with the phospho peptide.



Immunohistochemical analysis of paraffin-embedded human cervical carcinoma. 1, Antibody was diluted at 1:200 (4°C overnight). 2, Tris-EDTA, pH9.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200 (room temperature, 45min).

Contact information

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Please scan the QR code to access additional product information:
Integrin β 2
(Phospho Thr758)
Rabbit pAb

