

Anti-Integrin alpha V [P2W7] mAb

Catalogue number: 151140

Sub-type: Primary antibody

Images:

Contributor

Inventor: Ian Hart

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Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Anti-Integrin alpha V [P2W7] mAb

Alternate name: Anti-Integrin antibody; P2W7; anti-alphav; anti-av

Class: Monoclonal

Conjugate: Unconjugated

Description: Anti-Integrin alpha V [P2W7] is a monoclonal antibody which detects the ectodomain of integrin alpha-V(aV). Cell-matrix interactions are mediated primarily by integrins. Integrins have been implicated in cancer progression and metastasis.

These integrins are composed of alpha and beta subunits to form a complete signaling molecule.

Integrin aV is found in osteoclasts, placenta, melanoma cell lines and some epithelial cell lines. Expression of integrin aV increases with melanoma progression.

Studies have shown P2W7 antibody-induced changes in cell morphology (ZR75-1 cells). The morphological changes noted were transient island formation.

Purpose:

Parental cell:

Organism:

Tissue:

Model:

Gender:

Isotype: IgG1

Reactivity: Human

Selectivity:

Host: Mouse

Immunogen:

Ocular melanoma cell line (V+B2) a clone expressing high levels of alpha-v, beta-1

Immunogen UNIPROT ID: P06756

Sequence:

Growth properties:

Production details:

Formulation:

Recommended controls: A375M melanoma

Bacterial resistance:

Selectable markers:

Additional notes:

Target details

Target: Integrin alpha V (CD51)

Target alternate names:

Target background: Integrins are heterodimeric cell surface receptors composed of alpha and beta subunits, which mediate cell-cell and cell-extracellular matrix attachments. Aberrant integrin expression has been found in many epithelial tumours. Changes in integrin expression have been shown to be important for the growth and early metastatic capacity of melanoma cells. Integrin α V associates with integrin β 3 to form the osteoclast Fn antigen (vitronectin receptor). The alpha-V integrins are receptors for vitronectin, cytotactin, fibronectin, fibrinogen, laminin, matrix metalloproteinase-2, osteopontin, osteomodulin, prothrombin, thrombospondin and vWF. Integrin α V is found in osteoclasts, placenta, melanoma cell lines and some epithelial cell lines. Expression of integrin α V increases with melanoma progression. Anti-integrin α V detects the ectodomain of human integrin alpha V/CD51.

Molecular weight: 150-160 kDa

Ic50:

Applications

Application: FACS ; IHC ; IF ; IP ; WB

Application notes:

Handling

Format: Liquid

Concentration: 1 mg/ml

Passage number:

Growth medium:

Temperature:

Atmosphere:

Volume:

Storage medium:

Storage buffer: PBS with 0.02% azide

Storage conditions: Store at -20° C frozen. Avoid repeated freeze / thaw cycles

Shipping conditions: Shipping at 4° C

Related tools

Related tools:

References

References: The Interplay of Antigen Affinity, Internalization, and Pharmacokinetics on CD44-Positive Tumor Targeting of Monoclonal Antibodies. ; Glatt et al. 2016. Mol Pharm. :. PMID: 27079967. ; Bains et al. 2002. Fertil Steril. 78(2):307-12. PMID: 12137867. ; Human sperm cells express CD44. ; Nath et al. 1999. Immunology. 98(2):213-9. PMID: 10610356. ; Macrophage-tumour cell interactions: identification of MUC1 on breast cancer cells as a potential counter-receptor for the macrophage-restricted receptor, sialoadhesin.

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