

Anti-Integrin $\alpha 2$ [HAS-4]

Catalogue number: 151105

Sub-type: Primary antibody

Images: https://res.cloudinary.com/ximbio/image/upload/c_fit/39474abc-d62d-465a-8695-0d481bbe9bcd.jpg

Contributor

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Tool details

***FOR RESEARCH USE ONLY**

Name: Anti-Integrin $\alpha 2$ [HAS-4]

Alternate name: Integrin Subunit Alpha 2; Alpha 2 Subunit Of VLA-2 Receptor; Platelet Membrane Glycoprotein Ia; CD49 Antigen-Like Family Member B; Collagen Receptor; CD49B; GPIa; Very Late Activation Protein 2 Receptor, Alpha-2 Subunit; Human Platelet Alloantigen System 5; Platelet Glycoprotein GPIa; Platelet Antigen Br; VLA-2 Subunit Alpha; CD49b Antigen; HPA-5; VLA-2; VLAA2; BR

Class: Monoclonal

Conjugate: Unconjugated

Description: 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 $\alpha 2$ associates with integrin $\beta 1$ (CD29) to form the heterodimer integrin $\alpha 2\beta 1$, which is one of the most abundant keratinocyte integrins, is found distributed in the basal layer of epidermis and binds collagen. HAS-4 co-precipitates integrin $\alpha 2\beta 1$ from keratinocytes and inhibits HGF-induced branching morphogenesis and motility of human mammary epithelial HB2 cells in collagen.

Purpose:

Parental cell:

Organism:

Tissue:

Model:

Gender:

Isotype: IgG2a

Reactivity:

Human

Selectivity:

Host: Mouse

Immunogen: Whole human keratinocytes.

Immunogen UNIPROT ID: P17301

Sequence:

Growth properties:

Production details:

Formulation:

Recommended controls:

Bacterial resistance:

Selectable markers:

Additional notes:

Target details

Target: Integrin α 2 (CD49b)

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 2 associates with integrin β 1 (CD29) to form the heterodimer integrin α 2 β 1, which is one of the most abundant keratinocyte integrins, is found distributed in the basal layer of epidermis and binds collagen. HAS-4 co-precipitates integrin α 2 β 1 from keratinocytes and inhibits HGF-induced branching morphogenesis and motility of human mammary epithelial HB2 cells in collagen.

Molecular weight:

Ic50:

Applications

Application: FACS ; IHC ; IF ; IP

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: -15° C to -25° C

Shipping conditions: Shipping at 4° C

Related tools

Related tools:

References

References: Activation of c-MET induces a stem-like phenotype in human prostate cancer. ; van Leenders et al. 2011. PLoS One. 6(11):e26753. PMID: 22110593. ; Teklemariam et al. 2011. Toxicol. 57(5):646-56. PMID: 21255601. ; Fn analysis of a recombinant PIII-SVMP, GST-acocostatin; an apoptotic inducer of HUVEC and HeLa, but not SK-Mel-28 cells. ; Singh et al. 2010. Am J Physiol Lung Cell Mol Physiol. 299(2):L169-83. PMID: 20435685. ; Can lineage-specific markers be identified to characterize mesenchyme-derived cell populations in the human airways? ; Alford et al. 1998. J Cell Sci. 111 (Pt 4):521-32. PMID: 9443900. ; Integrin-matrix interactions affect the form of the structures developing from human mammary epithelial cells in collagen or fibrin gels. ; Tenchini et al. 1993. Cell Adhes Commun. 1(1):55-66. PMID: 7521749. ; Evidence against a major role for integrins in calcium-dependent intercellular adhesion of epidermal keratinocytes.