

Anti-Integrin aX [BU15]

Catalogue number: 151435

Sub-type: Primary antibody

Images:

Contributor

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Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Anti-Integrin aX [BU15]

Alternate name:

Class: Monoclonal

Conjugate: Unconjugated

Description: Monoclonal antibody directed against integrin aX, with capability in diagnosing hairy cell leukaemia.

Purpose:

Parental cell:

Organism:

Tissue:

Model:

Gender:

Isotype: IgG1

Reactivity: Dog ; Human ; Primate

Selectivity:

Host: Mouse

Immunogen: Dendritic cells of synovial fluid

Immunogen UNIPROT ID: P20702

Sequence:

Growth properties:

Production details:

Formulation:

Recommended controls:

Bacterial resistance:

Selectable markers:

Additional notes:

Target details

Target: Integrin alpha X (CD11C)

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 alpha X is found on hairy cell leukaemias, malignant histiocytes, on tissue macrophages, monocytes, activated neutrophils, monocyte derivative dendritic cells and some T-cell clones. Abnormal expression of Integrin aX is characteristic of hairy cell leukaemia (HCL) and requires activation of proto-oncogenes Ras and JunD. Proteins and DNA elements that influence transcription of Integrin aX include Sp1 and Sp1-like factors, AP-1 family, C/EBP, Oct-2 and PU.1. BU15 has utility for the diagnosis of hairy cell leukaemia.

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

Shipping conditions: Shipping at 4° C

Related tools

Related tools:

References

References: Knapp W. et al. 1989. Leukocyte Typing IV Oxford University Press ; Brown et al. 2005. Exp Cell Res. 303(2):400-14. PMID: 15652352. ; Regulation of hyaluronan binding by F-actin and colocalization of CD44 and phosphorylated ezrin/radixin/moesin (ERM) proteins in myeloid cells. ; Takahashi et al. 2003. Lung Cancer. 41(2):145-53. PMID: 12871777. ; Restoration of CD44S in non-small cell lung cancer cells enhanced their susceptibility to the macrophage cytotoxicity. ; Okamoto et al. 1999. J Biol Chem. 274(36):25525-34. PMID: 10464284. ; Regulated CD44 cleavage under the control of protein kinase C, calcium influx, and the Rho family of small G proteins. ; Baker et al. 1998. Blood. 92(8):2830-43. PMID: 9763568. ; Prolonged phenotypic, Fn, and molecular change in group I Burkitt lymphoma cells on short-term exposure to CD40 ligand. ; Guo et al. 1994. Int Immunol. 6(2):213-21. PMID: 7512372. ; Palmitoylation of CD44 interferes with CD3-mediated signaling in human T lymphocytes. ; Lesley et al. 1993. Adv Immunol. 54:271-335. PMID: 8379464. ; CD44 and its interaction with extracellular matrix. ; Anstee et al. 1991. Immunology. 74(2):197-205. PMID: 1721039. ; New monoclonal antibodies in CD44 and CD58: their use to quantify CD44 and CD58 on normal human erythrocytes and to compare the distribution of CD44 and CD58 in human tissues.

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