Anti-PLAP [HD 11F7]

Catalogue number: 151106
Sub-type: Primary antibody
Images:

Contributor

Inventor: Walter Bodmer
Institute: Cancer Research UK, London Research Institute: Lincoln's Inn Fields
Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Anti-PLAP [HD 11F7]

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: Monoclonal antibody with potential use in detection of ovarian and testicular tumours via detection of PLAP.
Purpose:
Parental cell:
Organism:
Tissue:
Model:
Gender:
Isotype: IgG2b
Reactivity: Human
Selectivity:
Host: Mouse
Immunogen: Fresh Hep-2 cells followed by booster injections of fresh Hep-2 cells that had their surface expression of PLAP boosted in culture.
Immunogen UNIPROT ID: P05187
Sequence:
Growth properties:
Production details:

Formulation:
Recommended controls:
Bacterial resistance:
Selectable markers:
Additional notes:

Target details

Target: Placental alkaline phosphatase (PLAP)

Target alternate names:

Target background: Human placental alkaline phosphatase (PLAP) is a membrane bound glycosylated phosphodiesterase normally synthesised by syncytiotrophoblast from the 12th week of pregnancy. Since its identification as an oncofoetal antigen, it has been found to be expressed by malignant tumours of germ cell and non-germ cell origin. The detection of alkaline phosphatase in serum is a marker for ovarian and testicular cancer. HD 11F7 has potential uses in the diagnosis of ovarian and testicular tumours. This antibody detects both Regan and Nagao isoenzymes. The placental-specific isozyme of Alkaline Phosphatase (PLAP), also referred to as the heat-stable form, is found in trophoblast cells of normal human mature placenta, seminomas of testis and ovarian carcinomas. It is closely related to the intestinal form of the enzyme as well as to the placental-like form. Anti-PLAP was created for use in immunoscintigraphy or therapy.

Molecular weight:

Ic50:

Applications

Application: ELISA ; IHC ; RIA
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: Malara et al. 2011. Blood. 117(8):2476-83. PMID: 21131589. ; Megakaryocyte-matrix interaction within bone marrow: new roles for fibronectin and factor XIII-A. ; Owens et al. 2001. Cancer Res. 61(13):5248-54. PMID: 11431366. ; Influence of beta1 integrins on epidermal squamous cell carcinoma formation in a transgenic mouse model: alpha3beta1, but not alpha2beta1, suppresses malignant conversion. ; 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.