

Product datasheet

Anti-PDGF Receptor alpha antibody [16A1] (Biotin) ab99924

Overview

Product name	Anti-PDGF Receptor alpha antibody [16A1] (Biotin)
Description	Mouse monoclonal [16A1] to PDGF Receptor alpha (Biotin)
Host species	Mouse
Conjugation	Biotin
Specificity	recognizes CD140a / PDGF receptor alpha, the 170 kDa alpha chain of platelet derived growth factor receptor, which is widely expressed on a variety of mesenchymal derived cells and plays pro proliferative or anti proliferative roles in various tumours.
Tested applications	Suitable for: ICC, Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	Tissue/ cell preparation - CD140a-transfected NIH 3T3 cells
General notes	The purified antibody is conjugated with Biotin-LC-NHS under optimum conditions. The reagent is free of unconjugated biotin.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 15mM Sodium Azide Constituents: PBS, pH 7.4
Purity	Size exclusion
Purification notes	Purified by immunoaffinity chromatography (> 95% by SDS-PAGE) prior to conjugation.
Clonality	Monoclonal
Clone number	16A1
Isotype	IgG1

Applications

Our [Abpromise guarantee](#) covers the use of **ab99924** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC		Use at an assay dependent concentration.
Flow Cyt		Use a concentration of 3 µg/ml. ab18434 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Target

Function	Receptor that binds both PDGFA and PDGFB and has a tyrosine-protein kinase activity.
Tissue specificity	Expressed in primary and metastatic colon tumors and in normal colon tissue. Tumors may express a different isoform to that found in normal tissue.
Involvement in disease	Note=A chromosomal aberration involving PDGFRA is found in some cases of hypereosinophilic syndrome. Interstitial chromosomal deletion del(4)(q12q12) causes the fusion of FIP1L1 and PDGFRA (FIP1L1-PDGFR).
Sequence similarities	Belongs to the protein kinase superfamily. Tyr protein kinase family. CSF-1/PDGF receptor subfamily. Contains 5 Ig-like C2-type (immunoglobulin-like) domains. Contains 1 protein kinase domain.
Cellular localization	Membrane.

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