BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-PDGF Receptor Beta PDGFRB Antibody (Monoclonal, 42G12)

Catalog Number: M00096

Introduction

CD3epsilon is a 20kD chain, which together with CD3lambda, CD3delta, and CD3zeta, and a T cell receptor (alpha/beta or gamma/) form the CD3/T-cell receptor complex. It is a specific marker for T lymphocytes, NK T cells, and some thymocytes. Crosslinking of TCR initiates an intracellular signaling cascade resulting in cellular activation and proliferation. The OKT3 antibody has been reported to have potent immunosuppressive properties in vivo and has been proved effective in the treatment of renal, heart, and liver allograft rejection.

This antibody is routinely tested by flow cytometric analysis. Flow cytometry and other applications were tested during antibody development or are reported in the literature.

Application Information

Each lot of this antibody has been pre-titrated and tested by flow cytometric analysis of human PBMCs such that 2-5µl of this product is sufficient for staining of 1 million cells in a 100µl staining volume or 100µl of whole blood. This biotin conjugated antibody can be easily detected by any fluorochrome conjugated streptavidin. It is recommended that antibody reactivity be empirically titrated for optimal performance in the application of interest.

About PDGFRB

Rhodopsin consists of the protein moiety opsin and a reversibly covalently bound cofactor, retinal. Opsin, a bundle of seven membrane embedded alpha-helices, binds retinal, a photo reactive chromophore, in a central pocket (2, 3). In addition to being the pigment of the retina that is responsible for both the formation of the photoreceptor cells, its function is to specifically convey information stored in the specific geometry of the chormophore to the surface of the molecule upon light absorption (2). In the active state, rhodopsin activates transduction, a GTP binding protein. Once activated, transduction promotes the hydrolysis of cGMP by phosphodiesterase. Rhodopsin's activity is believed to be shut off by its phosphorylation followed by binding of the soluble protein arrestin (4). Mutations in the rhodopsin gene lead to retinitis pigmentosa, which can be inherited as an autosomal dominant, an autosomal recessive or an X-linked recessive disorder (5).

Overview

Product Name	Anti-PDGF Receptor Beta PDGFRB Antibody (Monoclonal, 42G12)
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-PDGF Receptor Beta PDGFRB Antibody (Monoclonal, 42G12) (Catalog# M00096). Tested in IHC-P, WB application(s). This antibody reacts with Mouse, Rat.
Conjugate	HRP
Application	IHC-P, WB
Clonality	Monoclonal 42G12
Formulation	Liquid. In PBS, pH 7.2, containing 0.09% sodium azide and 50% glycerol.

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Storage Instructions	Store at -20°C for long-term storage. Avoid freeze/thaw cycles.
Host	Mouse
Uniprot ID	P09619

Technical Details

Immunogen	Recombinant human PDGF Receptor beta
Predicted Reactive Species	Bovine, Mammalian
Cross Reactivity	Weakly cross-reacts with human PDGF receptor beta.
Isotype	IgG1
Form	Liquid
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Protein G affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Western Blot (1μg/ml, ECL). Detects a band of ~125kDa by Western blot. Suggested dilutions/conditions may not be available for all applications. Optimal conditions must be determined individually for each application.

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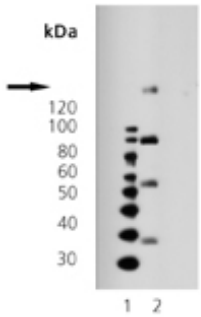
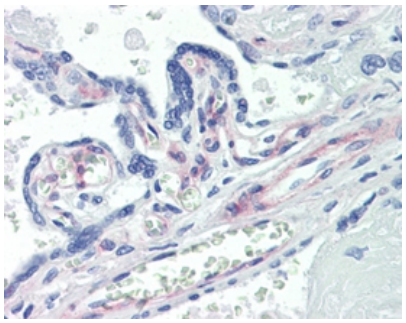
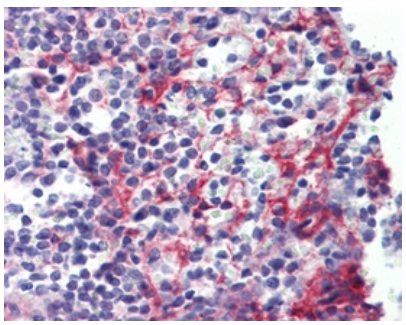
Anti-PDGF Receptor Beta PDGFRB Antibody (Monoclonal, 42G12) (M00096) Images



Western blot analysis of PDGF Receptor Beta expression in MW marker extract (lane 1) and mouse cardiac muscle extract (lane 2). PDGF Receptor Beta at 125KD was detected using mouse anti-PDGF Receptor Beta Antigen Affinity purified monoclonal antibody (Catalog # M00096) at 1 ug/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1001).



PDGF Receptor Beta was detected in paraffin-embedded sections of human placenta tissues using mouse anti-PDGF Receptor Beta Antigen Affinity purified monoclonal antibody (Catalog # M00096) at 20 ug/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1021).



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2 Publications Citing This Product

1. PubMed ID: 10.3760/cma.j.issn.0366-6999.2010.12.018, Changes in the expression of platelet-derived growth factor in astrocytes in diabetic rats with spinal cord injury

2. PubMed ID: 18466260, RNA interference targeting the platelet-derived growth factor receptor ? subunit ameliorates experimental hepatic fibrosis in rats

Visit bosterbio.com/anti-pdgf-receptor-beta-antibody-monoclonal-42g12-m00096-boster.html to see all 2 publications.

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