BOSTER BIOLOGICAL TECHNOLOGY
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Anti-PDGFR alpha Rabbit Monoclonal Antibody

Catalog Number: M00366

About PDGFRA

PDGFRA(Platelet-derived growth factor receptor, alpha), also called PDGFR2, encodes a cell surface tyrosine kinase receptor for members of the platelet-derived growth factor family. The PDGFA gene is mapped on 4q12. The PDGFRA-FIP1L1 gene is a constitutively activated tyrosine kinase that transforms hematopoietic cells and is a therapeutic target of imatinib. The PDGFRA gene contains 23 exons spanning about 65 kb. Using the human PDGFRA promoter linked to a luciferase reporter, Joosten et al. showed that PAX1 acts as a transcriptional activator of the PDGFRA gene in differentiated human embryonal carcinoma cells. PDGFRA is responsible for mediating cellular contraction of multiple growth factors: TGFB1 and members of the PDGF family. Lei et al. noted that in the rabbit model of the disease, PDGFRA is dramatically more capable of promoting PVR than is the closely related PDGFRB. PDGFRA is a critical receptor required for human CMV infection, and thus a target for novel antiviral therapies.

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Overview

Product Name	Anti-PDGFR alpha Rabbit Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-PDGFR alpha Rabbit Monoclonal Antibody catalog # M00366. Tested in WB application. This antibody reacts with Human, Mouse, Rat.
Application	WB
Clonality	Monoclonal AAOE-16
Formulation	Rabbit IgG in stabilizing components, phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P16234

Technical Details

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Immunogen	A synthesized peptide derived from human PDGFR alpha
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5mg/ml
Purification	Affinity-chromatography
Suggested Dilutions	WB, 1:500-2000

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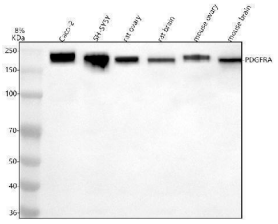
Anti-PDGFR alpha Rabbit Monoclonal Antibody (M00366) Images



Western blot analysis of PDGFR alpha/PDGFRA using anti-PDGFR alpha/PDGFRA antibody (M00366). Electrophoresis was performed on a 8% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human Caco-2 whole cell lysates, Lane 2: human SH-SY5Y whole cell lysates, Lane 3: rat ovary tissue lysates, Lane 4: rat brain tissue lysates, Lane 5: mouse ovary tissue lysates, Lane 6: mouse brain tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PDGFR alpha/PDGFRA antigen affinity purified monoclonal antibody (M00366) at 1:500 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for PDGFR alpha/PDGFRA at approximately 180 kDa. The expected band size for PDGFR alpha/PDGFRA is at 123 kDa.

2 Publications Citing This Product

1. PubMed ID: 10.1016/j.anireprosci.2019.05.006, Effect of maternal feed restriction in dairy goats at different stages of gestation on skeletal muscle development and energy metabolism of kids at the time of births

2. PubMed ID: 29140299, PDGFR%u03B1 regulated by miR-34a and FoxO1 promotes adipogenesis in porcine intramuscular preadipocytes through Erk signaling pathway

Visit bosterbio.com/anti-pdgfr-alpha-rabbit-monoclonal-antibody-m00366-boster.html to see all 2 publications.

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