

Basic Information

Product Name	Anti-PDGFR alpha/PDGFR α Antibody (Clone#AAOE-16)
Gene Name	PDGFRA
Source	Rabbit
Clonality	Monoclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.
Immunogen	A synthesized peptide derived from human PDGFR alpha
Concentration	500 ug/ml
Purification	Affinity-chromatography
Observed MW	180 kDa
Dilution Ratios	Western blot (WB):1:500-2000

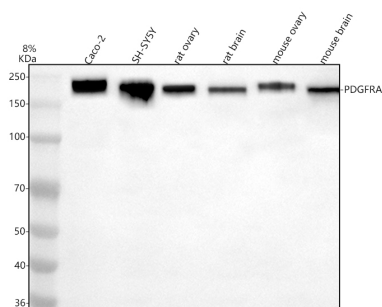
Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

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. And 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: TGF β 1 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.

Selected Validation Data



Western blot analysis of anti-PDGFR alpha/PDGFR α antibody

(BM4982). 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 membrane.

Then the membrane was incubated with rabbit anti-PDGFR

alpha/PDGFR α antigen affinity purified monoclonal antibody

(BM4982) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is

developed using ECL Plus Western Blotting Substrate (Catalog #

AR1197). A specific band was detected for PDGFR alpha/PDGFR α at approximately 180 kDa. The expected band size for PDGFR

alpha/PDGFR α is at 123 kDa.