

## Product datasheet for **TA807645**

### PDGF Receptor alpha (PDGFRA) Mouse Monoclonal Antibody [Clone ID: OTI1C10]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1C10
Applications:	IHC, WB
Recommend Dilution:	WB 1:2000, IHC 1:150
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 789-1089 of human PDGFRA(NP_006197) produced in E.coli.
Formulation:	PBS (PH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Predicted Protein Size:	120.3 kDa
Gene Name:	platelet derived growth factor receptor alpha
Database Link:	<a href="#">NP_006197</a> <a href="#">Entrez Gene 5156</a> <a href="#">Human</a>
Background:	This gene encodes a cell surface tyrosine kinase receptor for members of the platelet-derived growth factor family. These growth factors are mitogens for cells of mesenchymal origin. The identity of the growth factor bound to a receptor monomer determines whether the functional receptor is a homodimer or a heterodimer, composed of both platelet-derived growth factor receptor alpha and beta polypeptides. Studies suggest that this gene plays a role in organ development, wound healing, and tumor progression. Mutations in this gene have been associated with idiopathic hypereosinophilic syndrome, somatic and familial gastrointestinal stromal tumors, and a variety of other cancers. [provided by RefSeq, Mar 2012]
Synonyms:	CD140A; PDGFR-2; PDGFR2; RHEPDGFRA
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase, Transmembrane

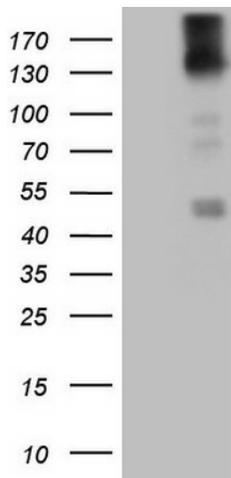


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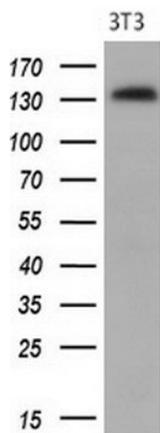
**Protein Pathways:**

Calcium signaling pathway, Colorectal cancer, Cytokine-cytokine receptor interaction, Endocytosis, Focal adhesion, Gap junction, Glioma, MAPK signaling pathway, Melanoma, Pathways in cancer, Prostate cancer, Regulation of actin cytoskeleton

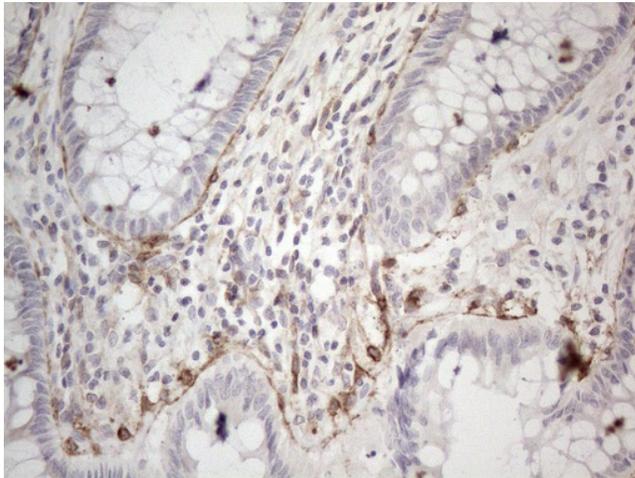
**Product images:**



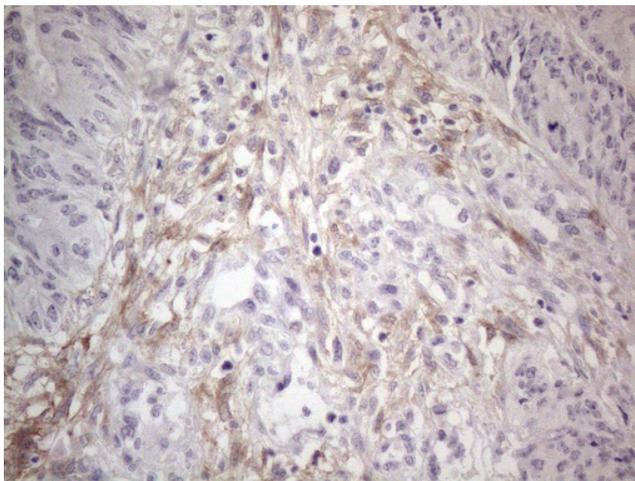
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PDGFRA ([RC211740], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PDGFRA (1:2000). Positive lysates [LY416803] (100ug) and [LC416803] (20ug) can be purchased separately from OriGene.



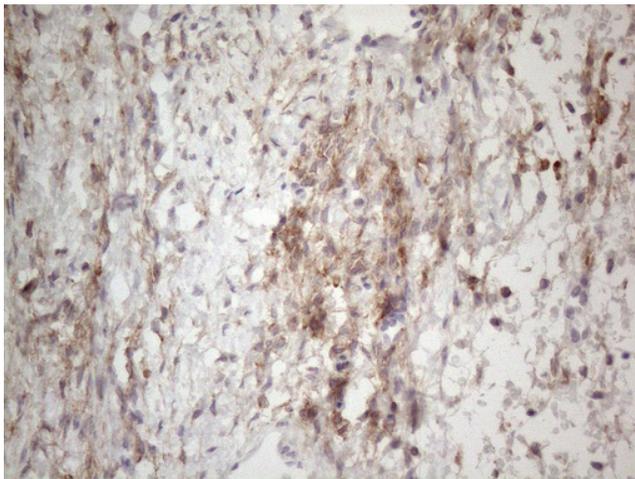
Western blot analysis of extracts (10ug) from NIH/3T3 mouse cell line by using anti-PDGFRA monoclonal antibody (1:200).



Immunohistochemical staining of paraffin-embedded Human colon tissue within the normal limits using anti-PDGFRA mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, TA807645) (1:150)



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-PDGFRA mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, TA807645) (1:150)



Immunohistochemical staining of paraffin-embedded Human Ovary tissue within the normal limits using anti-PDGFRA mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, TA807645) (1:150)