

**Rabbit Anti-PDGFRB [MD16R]: RM0312, RM0312RTU7**

**Intended Use:** For Research Use Only

**Description:** Beta-type Platelet-Derived Growth Factor Receptor is a protein that in humans is encoded by the PDGFRB gene. This gene encodes a cell surface tyrosine kinase receptor for members of the Platelet-Derived Growth Factor family (PDGF), which is a mitogen for mesenchyme- and glia-derived cells. PDGF consists of two chains, A and B, which dimerize to form functionally distinct isoforms, PGDF-AA, PDGF-AB and PDGF-BB. Translocation of the PDGFR gene with the Tel gene is linked to Chronic Myelomonocytic Leukemia (CMML), a myelodysplastic syndrome, and demonstrates the oncogenic potential of the PDGF receptors. A translocation between chromosomes 5 and 12, that fuses this gene to that of the translocation, ETV6, leukemia gene, results in chronic myeloproliferative disorder with eosinophilia

**Specifications:**

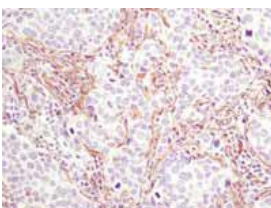
Clone: MD16R  
 Source: Rabbit  
 Isotype: IgG  
 Reactivity: Human  
 Localization: Membrane, cytoplasm  
 Formulation: 10 mM PBS, 1% BSA, 0.09% sodium azide (NaN<sub>3</sub>).  
 Storage: Store at 2°- 8°C. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles  
 Applications: IHC for FFPE, Frozen  
 Package:

Description	Catalog No.	Size
PDGFRB Concentrated	RM0312	1 ml
PDGFRB Prediluted	RM0312RTU7	7 ml

**IHC Procedure\*:**

Positive Control Tissue: Human colon carcinoma, mesothelioma, placenta  
 Concentrated Dilution: 20-100  
 Pretreatment: EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
 Incubation Time and Temp: 30-60 minutes @ RT  
 Detection: Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.



Human lung carcinoma FFPE stained PDGFRB using DAB

**References:**

1. The PDGFRβ-AKT pathway contributes to CDDP-acquired resistance in testicular germ cell tumors. Juliachs M, et al. Clin Cancer Res. Feb 1;20(3):658-67, 2014.
2. Chemotherapeutic alteration of VEGF, PDGF and PDGFRα/β expression under 5-FU vs. docetaxel in HPV-transformed squamous cell carcinoma compared to HPV-negative HNSCC in vitro. Aderhold C, et al. Anticancer Res. May 33(5): 1951-61, 2013.
3. Stromal PDGFRbeta expression in prostate tumors and non-malignant prostate tissue predicts prostate cancer survival. Hägglöf C, et al. PLoS One. 2010 May 20;5(5):e10747, 2010.