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PTGIR Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant PTGIR.
Catalog # AT3484a

Product Information

Application	WB, IHC, E
Primary Accession	P43119
Other Accession	NM_000960
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	4B10
Calculated MW	40956

Additional Information

Gene ID	5739
Other Names	Prostacyclin receptor, Prostaglandin I2 receptor, PGI receptor, PGI2 receptor, Prostanoid IP receptor, PTGIR, PRIPR
Target/Specificity	PTGIR (NP_000951, 296 a.a. ~ 386 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	PTGIR Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

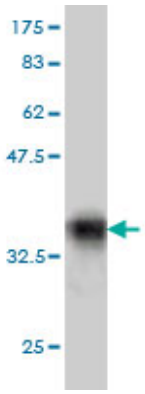
The protein encoded by this gene is a member of the G-protein coupled receptor family 1 and has been shown to be a receptor for prostacyclin. Prostacyclin, the major product of cyclooxygenase in macrovascular endothelium, elicits a potent vasodilation and inhibition of platelet aggregation through binding to this receptor.

References

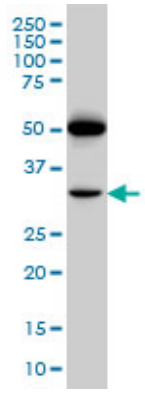
Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes

Care, 2010 Jul 13. PMID 20628086.Interaction of the human prostacyclin receptor with Rab11: characterization of a novel Rab11 binding domain within alpha-helix 8 that is regulated by palmitoylation. Reid HM, et al. J Biol Chem, 2010 Jun 11. PMID 20395296.Prostaglandin receptors EP2 and IP are detectable in atherosclerotic arteries and plaques. Muto A, et al. Int Angiol, 2010 Apr. PMID 20357748.New genetic associations detected in a host response study to hepatitis B vaccine. Davila S, et al. Genes Immun, 2010 Apr. PMID 20237496.Estrogen increases expression of the human prostacyclin receptor within the vasculature through an ERalpha-dependent mechanism. Turner EC, et al. J Mol Biol, 2010 Feb 26. PMID 20070947.

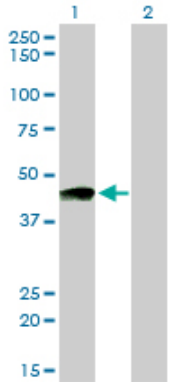
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (35.75 KDa) .

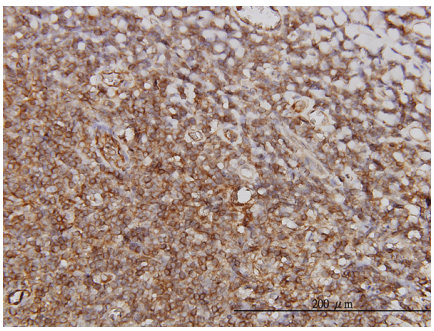


PTGIR monoclonal antibody (M01), clone 4B10 Western Blot analysis of PTGIR expression in A-549 ((Cat # AT3484a)

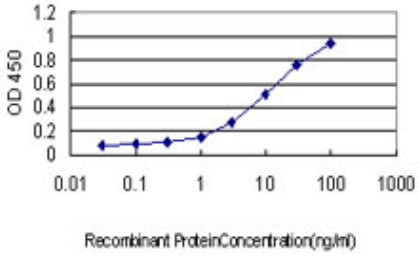


Western Blot analysis of PTGIR expression in transfected 293T cell line by PTGIR monoclonal antibody (M01), clone 4B10.

Lane 1: PTGIR transfected lysate(41 KDa).
Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to PTGIR on formalin-fixed paraffin-embedded human tonsil. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged PTGIR is approximately 0.1ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.