For Research Use Only

Piezo1 (extracellular domain) Recombinant antibody

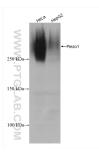
Catalog Number:82625-4-RR 1 Publications



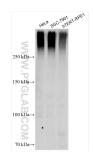
Basic Information	Catalog Number: 82625-4-RR	GenBank Accession Number: BC008073	Purification Method: Protein A purification	
	Size:	GeneID (NCBI):	CloneNo.:	
	100ul , Concentration: 1000 ug/ml by		4B15	
	Nanodrop;	UNIPROT ID:	Recommended Dilutions:	
	Source:	Q92508	WB 1:1000-1:4000	
	Rabbit	Full Name:	IHC 1:50-1:500 IF/ICC 1:125-1:500	
	lsotype: IgG	family with sequence similarity 38 member A	,	
	Immunogen Catalog Number: AG7791	Calculated MW: 286 kDa		
		Observed MW: 233-286 kDa		
Applications	Tested Applications:	Positive Co	Positive Controls:	
	WB, IHC, IF/ICC, ELISA Cited Applications:	WB : HeLa c RPE1 cells	WB: HeLa cells, HepG2 cells, SGC-7901 cells, hTERT- RPE1 cells	
	IHC	IHC : rat do	sal root ganglion tissue,	
	Species Specificity: human, rat	IF/ICC : TH	IF/ICC : THP-1 cells,	
	Cited Species: human			
	Note-IHC: suggested antigen ro TE buffer pH 9.0; (*) Alternativ retrieval may be performed w buffer pH 6.0	vely, antigen		
Background Information	process of mammalian cells that influ and auditory sensation, regulation of FAM38A, also known as Piezo1, has re mechanosensation and stretch-activa	Jences many critical processes inclu vascular tone, flow sensing in the k ecently been identified as a mechar ted cation channel activation. Piezo ivation through R-Ras recruitment to v xerocytosis. Piezo1 also regulates	dney, and muscle and tendon stretch. otransduction protein that gets involved 1 also plays a key role in epithelial cell the ER. Mutations in the gene encoding extrusion to maintain homeostatic	
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Notable Publications	process of mammalian cells that influ and auditory sensation, regulation of FAM38A, also known as Piezo1, has re mechanosensation and stretch-activa adhesion by maintaining integrin act Piezo1 are associated with hereditary epithelial cell numbers. This antibody 20016066, 28416610) Author Pub Zhenyu Li 400 Storage: Store at -20°C. Stable for one year after Storage Buffer: PBS with 0.02% sodium azide and 50°	Jences many critical processes incluvascular tone, flow sensing in the keepently been identified as a mechanited cation channel activation. Piezo ivation through R-Ras recruitment to exerocytosis. Piezo1 also regulates by was raised against the extracellul. med ID Journal 74811 Commun Biol	ding embryonic development, tactile, pa dney, and muscle and tendon stretch. otransduction protein that gets involved 1 also plays a key role in epithelial cell the ER. Mutations in the gene encoding extrusion to maintain homeostatic ar domain of human Piezo1. (PMID: Application	
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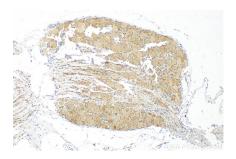
Selected Validation Data



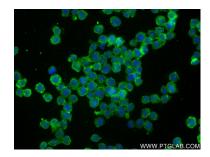
Various lysates were subjected to SDS PAGE followed by western blot with 82625-4-RR (Ag7791 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



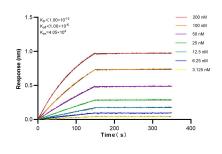
Various lysates were subjected to SDS PAGE followed by western blot with 82625-4-RR (Piezo1 (extracellular domain) antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded rat dorsal root ganglion tissue slide using 82625-4-RR (Piezo1 (extracellular domain) antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed THP-1 cells using Piezo1 (extracellular domain) antibody (82625-4-RR, Clone: 4B15) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLL) kinetic assays of 82625-4-RR against Human Piezo1 (extracellular domain) were performed. The affinity constant is below 1 pM.