

PIEZ1 rabbit pAb

Catalog No :	YT8073
Reactivity :	Human;Mouse;Rat
Applications :	IHC;WB
Target :	PIEZ1
Gene Name :	PIEZO1 FAM38A KIAA0233
Protein Name :	Piezo-type mechanosensitive ion channel component 1 (Membrane protein induced by beta-amyloid treatment) (Mib) (Protein FAM38A)
Human Gene Id :	9780
Human Swiss Prot No :	Q92508
Mouse Swiss Prot No :	E2JF22
Rat Gene Id :	361430
Rat Swiss Prot No :	Q0KL00
Immunogen :	Synthesized peptide derived from human C-terminal PIEZ1
Specificity :	This antibody detects endogenous levels of PIEZ1 at Human, Mouse,Rat
Formulation :	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000 IHC 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability : -15°C to -25°C/1 year (Do not lower than -25°C)

Molecularweight : 277kD

Function : Pore-forming subunit of a mechanosensitive non-specific cation channel . Generates currents characterized by a linear current-voltage relationship that are sensitive to ruthenium red and gadolinium. Plays a key role in epithelial cell adhesion by maintaining integrin activation through R-Ras recruitment to the ER, most probably in its activated state, and subsequent stimulation of calpain signaling . In the kidney, may contribute to the detection of intraluminal pressure changes and to urine flow sensing. Acts as shear-stress sensor that promotes endothelial cell organization and alignment in the direction of blood flow through calpain activation . Plays a key role in blood vessel formation and vascular structure in both development and adult physiology (By similarity). Acts as sensor of phosphatidylserine (PS) flipping at the plasma membrane and governs morphogenesis of muscle cells. I

Subcellular Location : Endoplasmic reticulum membrane ; Multi-pass membrane protein. Endoplasmic reticulum-Golgi intermediate compartment membrane . Cell membrane ; Multi-pass membrane protein . Cell projection, lamellipodium membrane . Cell membrane ; Multi-pass membrane protein. In erythrocytes, located in the plasma membrane (PubMed:22529292, PubMed:23479567). Accumulates at the leading apical lamellipodia of endothelial cells in response to shear stress (PubMed:25119035). Colocalizes with F-actin and MYH9 at the actomyosin cortex in myoblasts. .

Expression : Expressed in numerous tissues. In normal brain, expressed exclusively in neurons, not in astrocytes. In Alzheimer disease brains, expressed in about half of the activated astrocytes located around classical senile plaques. In Parkinson disease substantia nigra, not detected in melanin-containing neurons nor in activated astrocytes. Expressed in erythrocytes (at protein level). Expressed in myoblasts (at protein level).

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