

DESCRIPTION

Species Reactivity	Human
Specificity	Detects a synthetic peptide specific for Piezo2 around amino acid 2115 in Direct ELISA.
Source	Monoclonal Mouse IgG _{2B} Clone # 1081503
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	PIEZO2 containing synthetic peptide Accession # Q9H5I5
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Immunohistochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

PIEZO2 is an 318 kDa mechanosensitive nonselective cation channel, found in cell types that typically respond to physical touch. PIEZO2 is an essential mechanotransducer for touch, proprioception, and interoception. PIEZO2 is important for aspects of breathing, bladder control, blood pressure regulation and many other processes since it is expressed in several classes of jugular and nodose ganglia neurons. Loss of function of PIEZO2 results in profound lack of proprioception and is diagnosed as a rare disease caused PIEZO2 deficiency syndrome.

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