

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Pannexin-3 in ELISA.
Source	Monoclonal Mouse IgG _{2B} Clone # 788905
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Pannexin-3 Tyr289-Thr384 Accession # Q96QZ0
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.

Western Blot 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

Pannexin-3 (PANX3) is an approximately 45 kDa member of the Pannexin family of four-transmembrane channel proteins with a conserved pattern of cysteines. It is expressed in skin, cochlea, and developing hard tissues including cartilage and bone. In osteoblasts, it forms Ca²⁺ channels in the endoplasmic reticulum and promotes osteogenic differentiation. It also forms gap junction channels that pass Ca²⁺ between cells, and ATP-releasing hemichannels in the plasma membrane. Within aa 289-384 (in the C-terminal cytoplasmic domain), human Pannexin-3 shares 95% and 99% aa sequence identity with mouse and rat Pannexin-3, respectively.

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