

#### DESCRIPTION

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|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human Pannexin-3 in ELISA.                                                                                                                                                                                                                                          |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>2B</sub> Clone # 788905                                                                                                                                                                                                                           |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human Pannexin-3<br>Tyr289-Thr384<br>Accession # Q96QZ0                                                                                                                                                                                 |
| <b>Conjugate</b>          | Alexa Fluor 750<br>Excitation Wavelength: 749 nm<br>Emission Wavelength: 775 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | 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 Ca<sup>2+</sup> channels in the endoplasmic reticulum and promotes osteogenic differentiation. It also forms gap junction channels that pass Ca<sup>2+</sup> 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.

#### PRODUCT SPECIFIC NOTICES

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