

DESCRIPTION

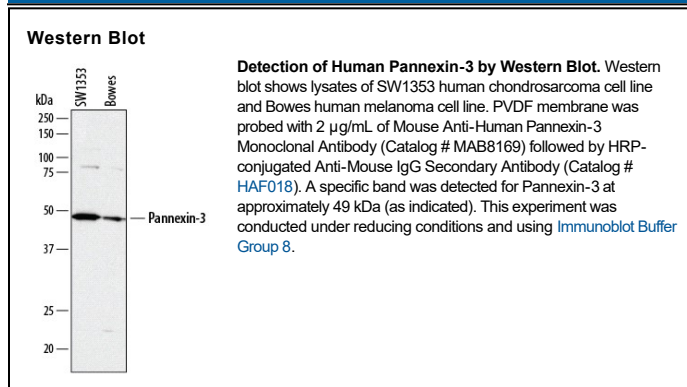
Species Reactivity	Human
Specificity	Detects human Pannexin-3 in ELISA.
Source	Monoclonal Mouse IgG _{2B} Clone # 788905
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Pannexin-3 Tyr289-Thr384 Accession # Q96QZ0
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	2 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.