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Connexin 29 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP59052

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q8NFK1
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	31299
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Connexin 29
Epitope Specificity	151-250/279
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell membrane. Cell junction, gap junction.
SIMILARITY	Belongs to the connexin family. Gamma-type subfamily.
SUBUNIT	A connexon is composed of a hexamer of connexins
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Connexin 29 belongs to the connexin family and is a member of the epsilon-type subfamily. Connexin 29 is a membrane bound, multi-pass protein also known as gap junction epsilon-1 protein. A connexon, consisting of connexin hexamers, is a membrane bound structure that is integral in the formation of a gap junction. One gap junction consists of a cluster of closely packed pairs of transmembrane channels, the connexons, through which materials of low molecular weight diffuse from one cell to a neighboring cell. Connexin 29 expression is restricted to the central nervous system and is present in brain, spinal cord, and sciatic nerve samples. It has been suggested that connexin 29 in the mature CNS contributes minimally to gap junctional intercellular communication in oligodendrocyte cell bodies. Rather, connexin 29 is targeted to myelin where it, along with connexin 32, may contribute to connexin-mediated communication between adjacent layers of uncompacted myelin.

Additional Information

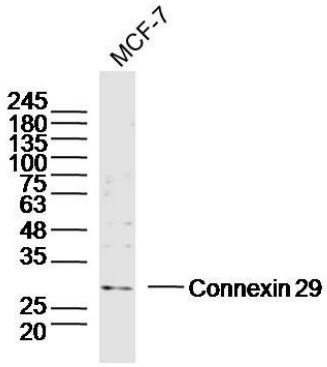
Gene ID	349149
Other Names	Gap junction gamma-3 protein, Connexin-30.2, Cx30.2, Connexin-31.3, Cx31.3, Gap junction epsilon-1 protein, GJC3, GJE1
Target/Specificity	CNS specific. Expression is restricted to brain, spinal cord, and sciatic nerve. According to PubMed:12881038, expression is abundant in skeletal muscle,

	liver, and heart, and to a minor degree in pancreas and kidney.
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

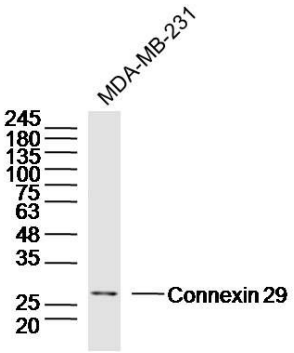
Protein Information

Name	GJC3
Synonyms	GJE1
Function	One gap junction consists of a cluster of closely packed pairs of transmembrane channels, the connexons, through which materials of low MW diffuse from one cell to a neighboring cell.
Cellular Location	Cell membrane; Multi-pass membrane protein. Cell junction, gap junction
Tissue Location	CNS specific. Expression is restricted to brain, spinal cord, and sciatic nerve. According to PubMed:12881038, expression is abundant in skeletal muscle, liver, and heart, and to a minor degree in pancreas and kidney.

Images



Sample: MCF-7 Cell (Human) Lysate at 40 ug
Primary: Anti-Connexin 29(AP59052)at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 31kD
Observed band size: 31kD



Sample: MDA-MB-231 Cell (Human) Lysate at 40 ug
Primary: Anti-Connexin 29(AP59052)at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 31kD
Observed band size: 31kD