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Anti-Connexin 32 (Gap Junction Protein) Antibody

Mouse Monoclonal Antibody
Catalog # AH13267

Product Information

Application	WB, IHC-P, IF, FC
Primary Accession	P08034
Other Accession	333303
Reactivity	Human, Mouse, Rat
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG
Clone Names	GJB1/1753
Calculated MW	32025

Additional Information

Gene ID	2705
Other Names	Charcot Marie Tooth neuropathy X linked; CMTX; CMTX1; Connexin-32; Cx32; GAP junction 28kDa liver protein; Gap junction beta-1 protein; Gap junction protein beta 1 32kD; GJB1
Application Note	Immunofluorescence (1-2ug/ml); Flow Cytometry (0.5-1ug/million cells);,Western Blotting (0.5-1ug/ml); ,Immunohistology (Formalin-fixed) (1-2ug/ml for 30 minutes at RT),(Staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.
Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage	Store at 2 to 8°C.Antibody is stable for 24 months.
Precautions	Anti-Connexin 32 (Gap Junction Protein) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

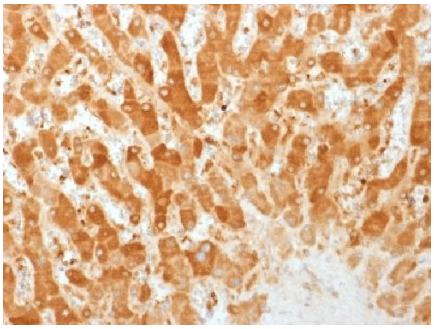
Name	GJB1
Synonyms	CX32
Function	One gap junction consists of a cluster of closely packed pairs of

	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

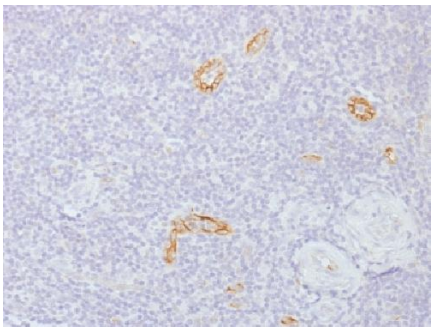
Background

This Ab recognizes a protein of 27-32kDa, identified as Connexin 32. The connexin family of proteins forms hexameric complexes called connexons that facilitate movement of low molecular weight proteins between cells via gap junctions. Connexin proteins share a common topology of four transmembrane α-helical domains, two extracellular loops, a cytoplasmic loop and cytoplasmic N- and C-termini. Many of the key functional differences arise from specific amino-acid substitutions in the most highly conserved domains, the transmembrane and extracellular regions. Each of the approximately 20-connexin isoforms produces channels with distinct permeability and electrical and chemical sensitivities; therefore, one connexin usually cannot fully substitute for another.

Images



Formalin-fixed, paraffin-embedded human Liver stained with Connexin 32 Monoclonal Antibody (GJB1/1753)



Formalin-fixed, paraffin-embedded human Tonsil stained with Connexin 32 Monoclonal Antibody (GJB1/1753)