Best Tools for immunology Research

Connexin 47 Polyclonal Antibody

Catalog No :	YT1049
Reactivity :	Human;Rat;Mouse;
Applications :	WB;IF;ELISA
Target :	Connexin 47
Gene Name :	GJC2
Protein Name :	Gap junction gamma-2 protein
Human Gene Id :	57165
Human Swiss Prot No :	Q5T442
Mouse Swiss Prot No :	Q8BQU6
Immunogen :	The antiserum was produced against synthesized peptide derived from human CXG2. AA range:21-70
Specificity :	Connexin 47 Polyclonal Antibody detects endogenous levels of Connexin 47 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 47kD

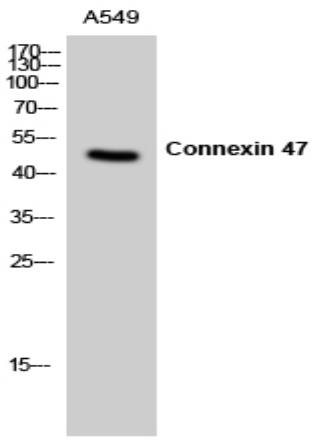
Background : This gene encodes a gap junction protein. Gap junction proteins are members of a large family of homologous connexins and comprise 4 transmembrane, 2 extracellular, and 3 cytoplasmic domains. This gene plays a key role in central myelination and is involved in peripheral myelination in humans. Defects in this gene are the cause of autosomal recessive Pelizaeus-Merzbacher-like disease-1. [provided by RefSeq, Jul 2008],

Function : caution:It is uncertain whether Met-1 or Met-4 is the initiator.,disease:Defects in GJC2 are the cause of Leukodystrophy hypomyelinating type 2 (HLD2) [MIM:608804]; also known as Pelizaeus-Merzbacher-like disease autosomal recessive type 1. HLD2 is an autosomal recessive hypomyelinating leukodystrophy characterized by nystagmus, impaired motor development, ataxia, choreoathetotic movements, dysarthria and progressive spasticity.,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. May play a role in myelination in central and peripheral nervous systems.,similarity:Belongs to the connexin family. Gamma-type subfamily.,subunit:A connexon is composed of a hexamer of connexins. Interacts with TJP1.,tissue specificity:Expressed in central nervous system,

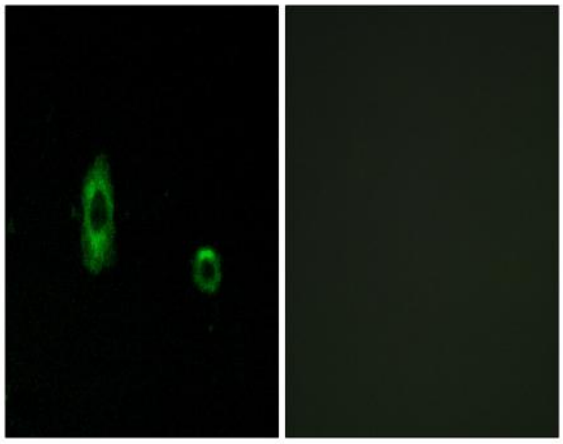
Subcellular Location : Cell membrane; Multi-pass membrane protein. Cell junction, gap junction.

Expression : Expressed in central nervous system, in sciatic nerve and sural nerve. Also detected in skeletal muscles.

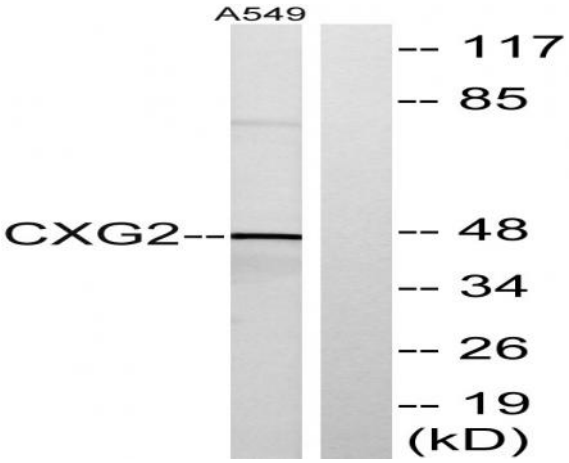
Products Images



Western Blot analysis of A549 cells using Connexin 47 Polyclonal Antibody



Immunofluorescence analysis of A549 cells, using CXG2 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from A549 cells, using CXG2 Antibody. The lane on the right is blocked with the synthesized peptide.