10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

GJB6 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1546a

Product Information

Application	WB, IHC-P, E
Primary Accession	O95452
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB1391
Calculated MW	30387
Antigen Region	87-117

Additional Information

Gene ID	10804
Other Names	Gap junction beta-6 protein, Connexin-30, Cx30, GJB6
Target/Specificity	This GJB6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 87-117 amino acids from the N-terminal region of human GJB6.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	GJB6 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GJB6
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

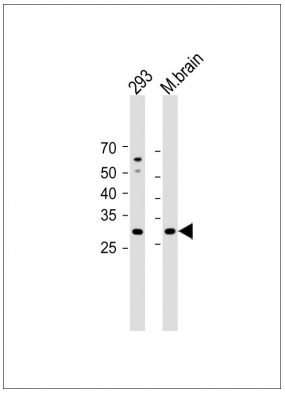
Background

Gap junctions are conduits that allow the direct cell-to-cell passage of small cytoplasmic molecules, including ions, metabolic intermediates, and second messengers, and thereby mediate intercellular metabolic and electrical communication. Gap junction channels consist of connexin protein subunits, which are encoded by a multigene family. GJBs (gap-junction proteins or connexins) play crucial functional roles associated with these channels. I Mutations in GJB2 are associated with genetically derived hearing impairments, including autosomal dominant, bilateral, middle to high frequency hearing loss.

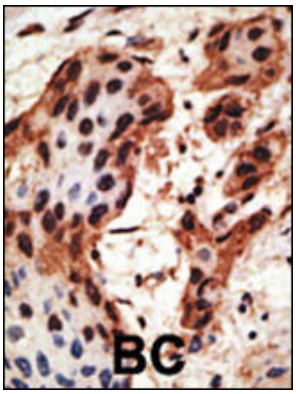
References

Beltramello, M., et al., Biochem. Biophys. Res. Commun. 305(4):1024-1033 (2003).
Common, J.E., et al., Biochem. Biophys. Res. Commun. 298(5):651-656 (2002).
Smith, F.J., et al., J. Invest. Dermatol. 118(3):530-532 (2002).
del Castillo, I., et al., N. Engl. J. Med. 346(4):243-249 (2002).
Pallares-Ruiz, N., et al., Eur. J. Hum. Genet. 10(1):72-76 (2002).

Images



All lanes: Anti-GJB6 Antibody (N-term) at 1:2000 dilution Lane 1: 293 whole cell lysate Lane 2: Mouse brain lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 30. 4 KDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.