

Connexin 30.3 Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1544a**Specification**

Connexin 30.3 Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	O9NTQ9
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	90-120

Connexin 30.3 Antibody (N-term) - Additional Information**Gene ID** 127534**Other Names**

Gap junction beta-4 protein, Connexin-303, Cx303, GJB4

Target/Specificity

This Connexin 30.3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 90-120 amino acids from the N-terminal region of human Connexin 30.3.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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

Connexin 30.3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Connexin 30.3 Antibody (N-term) - Protein Information**Name** GJB4

Function Structural component of gap junctions (By similarity). Gap junctions are dodecameric channels that connect the cytoplasm of adjoining cells. They are formed by the docking of two hexameric hemichannels, one from each cell membrane (By similarity). Small molecules and ions diffuse from one cell to a neighboring cell via the central pore (By similarity).

Cellular Location

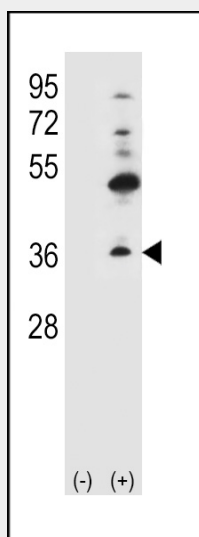
Cell membrane {ECO:0000250|UniProtKB:Q02738}; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q02738}. Cell junction, gap junction {ECO:0000250|UniProtKB:Q02738}. Note=Colocalizes with GJB2 at gap junction plaques in the cochlea {ECO:0000250|UniProtKB:Q02738}

Connexin 30.3 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Connexin 30.3 Antibody (N-term) - Images



Western blot analysis of GJB4 (arrow) using rabbit polyclonal GJB4 Antibody (H105.Connexin) (Cat. #AP1544c). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the GJB4 gene.

Connexin 30.3 Antibody (N-term) - Background

Gap junctions permit direct cell-to-cell passage of small cytoplasmic molecules, including ions, metabolic intermediates, and second messengers, and thereby mediate intercellular communication. Gap junction channels consist of connexin protein subunits encoded by a multigene family. Erythrokeratoderma variabilis (EKV) is an autosomal dominant disorder of keratinization characterized by migratory erythematous lesions and fixed keratotic plaques. Mutations in the GJB3 gene have been reported in some but not all families, although it has been postulated that the absence of connexin 30.3 can be compensated by other connexins.

Connexin 30.3 Antibody (N-term) - References

Ota, T., et al., Nat. Genet. 36(1):40-45 (2004).

Richard, G., et al., J. Invest. Dermatol. 120(4):601-609 (2003).

Macari, F., et al., Am. J. Hum. Genet. 67(5):1296-1301 (2000).

Lopez-Bigas, N., et al., Hum. Mutat. 19 (4), 458 (2002).

Connexin 30.3 Antibody (N-term) - Citations

- [Expression pattern of connexins in the corneal and limbal epithelium of a primate.](#)