Mouse Anti-Connexin 32 [MD157]: MC0371, MC0371RTU7

Intended Use: For Research Use Only

Description: The connexin family of proteins form 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 a-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 permeabilities and electrical and chemical sensitivities; therefore, one connexin usually cannot fully substitute for another. Consequently, a wide variety of malignant phenotypes associate with decreased connexin expression and gap junction communication, dependent on the particular connexin that is effected. For instance, mutations in connexin 32 result in Charcot-Marie-Tooth disease, a demyelinating disease of the peripheral nervous system.

Specifications

Clone:	MD157
Source:	Mouse
Isotype:	IgG
Reactivity:	Human, mouse, rat
Immunogen:	Recombinant human GJB1 protein
Localization:	Cytoplasm, membrane
Formulation:	Purified antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC

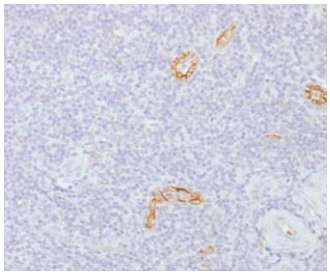
Package:

Description	Catalog No.	Size
Connexin 32 [MD157] Concentrated	MC0371	1 ml
Connexin 32 [MD157] Prediluted	MC0371RTU7	7 ml

IHC Procedure*

Positive Control Tissue:	Tonsil, liver, kidney, stomach, MCF-7 cells
Concentrated Dilution:	100-500
Pretreatment:	Tris EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human tonsil stained with anti-Connexin 32 using DAB

References:

1. Stage-specific and differential expression of gap junctions in the mouse ovary: connexin-specific roles in follicular regulation. Wright CS, et al. Reproduction 121:77-88, 2001
2. Expression of connexin 31 in the developing mouse cochlea. A P Xia, et al. . Neuroreport Aug 3;11(11):2449-53, 2000.

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