



Mouse anti-Rat Connexin-43 monoclonal antibody, clone 3 (CABT-B9190)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	Rat Connexin-43 aa. 252-270
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Rat, Human, Mouse, Dog, Chicken
Clone	3
Purification	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Conjugate	Unconjugated
Applications	WB; IF; IHC-Fr
Format	Liquid
Concentration	250 µg/ml
Size	50 µg, 150 µg
Buffer	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.
Storage	Store undiluted at -20°C.

BACKGROUND

Introduction	Gap junctions are intercellular protein pores. They enable cell-to-cell communication by
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allowing passage of ions and other small molecules. The subunits of gap junction channels are assembled from a family of proteins called connexins. Individual connexin molecules join to make hexameric hemichannels termed connexons; these structures dock to connexons on neighboring cells, forming gap junction pores. Connexin-43 is a member of the connexin family possessing four transmembrane regions, with cytoplasmic amino and carboxyl terminals. It undergoes rapid turnover in the cell and its monomers may reside in the ER/Golgi network, forming a reservoir available for assembly upon degradation of existing connexin-43 channels. In addition, it is believed that phosphorylation of connexin-43 plays a regulatory role both in the assembly of connexons and in gating activity at the gap junction.

Keywords	GJA1; gap junction protein, alpha 1, 43kDa; HSS; CMDR; CX43; GJAL; ODDD; AVSD3; HLHS1; gap junction alpha-1 protein; connexin 43; connexin-43; gap junction 43 kDa heart protein;
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GENE INFORMATION

Entrez Gene ID	2697
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UniProt ID	P17302
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