



20150119ML

Anti-Mouse Artemin (#6D32)

**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

Cat.-no.:	103-M216
Size:	100 µg
Lot. No.:	According to product label

Preparation: This antibody was produced from a hybridoma (mouse myeloma fused with spleen cells from a rat immunized with purified mouse recombinant Artemin. The IgG2 fraction of the culture supernatant was purified by Protein A/G affinity chromatography.

Target Background

Synonyms (Target):	Artn; neublastin
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Artemin is a member of the Glia Cell-Derived Neurotrophic factor (GDNF) family ligands, which include GDNF, Persephin, Artemin, and Neurturin. GDNF family ligands are distant members of the Transforming Growth Factor β (TGF β) superfamily. Similar to other TGF β family proteins, Artemin is synthesized as a large precursor protein that is cleaved at the dibasic cleavage site (RXXXR) to release the carboxyterminal domain. The carboxy terminal domain of Artemin contains the characteristic seven conserved cysteine residues necessary for the formation of the cysteine-knot and the single interchain disulfide bond. Biologically active Artemin is a disulfide-linked homodimer of the carboxyterminal 113 amino acid residues. Mature mouse Artemin shares 88.5% amino acid sequence similarity with human Artemin. Mature Artemin also shares approximately 40% amino acid sequence identity with the other three members of the GDNF family ligands. Bioactivities of all GDNF family ligands are mediated through a receptor complex composed of a high affinity ligand binding component (GFR α 1/GFR α 4) and a common signaling component, cRET (receptor tyrosine kinase). Artemin prefers to bind to GFR α 3 and activates the GFR α 3RET. However, in the presence of RET, it can bind to GFR α 1 as well. Artemin has been shown to promote the survival and growth of various peripheral and central neurons, including sympathetic and dopaminergic neurons. It may also play an important role in the development of sympathetic neurons and several organs.

Database References Target

Protein RefSeq:	NP_033841.1
Uniprot ID:	Q9Z0L2
mRNA RefSeq:	NM_009711.3

Product Specifications

Host	Rat
Reactivity against	Mouse
Clonality	Monoclonal Antibody
Clone	(#6D32)
Isotype	IgG2
Purification	Protein G chromatography
Antigen	recombinant mouse Artemin
Formulation	lyophilized
Reconstitution buffer	PBS (sterile)

Reconstitution: Reconstitute the antibody with 200 µl sterile PBS and the final concentration is 500 µg/ml.

Stability: Lyophilized samples are stable for 2 years from date of receipt when stored at -70°C. Reconstituted antibody can be aliquoted and stored frozen at < -20 °C for at least for six months without detectable loss of activity.

Remarks: This antibody was selected for its ability to detect Artemin.

**AVOID REPEATED FREEZE AND THAW CYCLES!**

Applications

The antibody can be used within the following applications:

WB, IHC

Recommended usage:

WB 1:500 – 1:1000

IHC (frozen) 1:50 – 1:200

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!