

## Product datasheet for **AM33448PU-N**

### Artemin (ARTN) Mouse Monoclonal Antibody [Clone ID: 2D12]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	2D12
Applications:	ELISA, IF, WB
Recommended Dilution:	<b>ELISA:</b> 1/5000-1/50000. <b>Western Blot:</b> 1/500-1/2000 (detects only dimeric protein in non-reducing conditions). <b>Immunofluorescence:</b> 1/50-1/3000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant human Artemin protein produced using CHO-based. Protein was purified from the cell culture supernatant.
Specificity:	This antibody detects Human Artemin. Other species not tested.
Formulation:	PBS pH 7.4 State: Aff - Purified State: Liquid purified IgG fraction Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	artemin
Database Link:	<a href="#">Entrez Gene 9048 Human Q5T4W7</a>



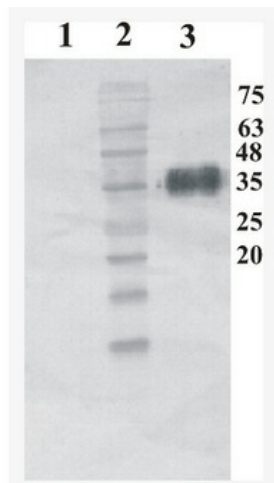
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**Background:**

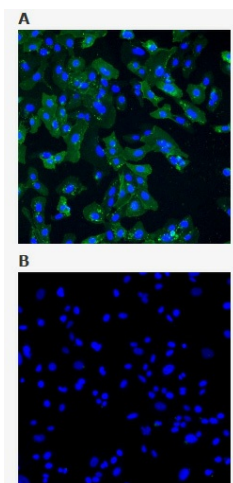
Artemin supports the survival of sensory and sympathetic peripheral neurons in culture and also supports the survival of dopaminergic neurons of the ventral mid-brain. Strong attractant of gut hematopoietic cells thus promoting the formation Peyer's patch-like structures, a major component of the gut-associated lymphoid tissue. Ligand for the GFR-alpha-3-RET receptor complex but can also activate the GFR-alpha-1-RET receptor complex (UniProt).

**Synonyms:**

Enovin, Neublartin, ARTN, EVN

**Product images:**


Western Blot testing of purified recombinant Artemin by anti-Artemin antibody 2D12. Goat anti-mouse IgG HRP conjugate was used as secondary antibody. 15  $\mu$ l of CHOEBNALT85 Artemin expressing supernatant was loaded per line. Line 1. Reduced conditions; Line 2. Non-reduced conditions; Line 3. Protein marker (8003, Naxo).



Immunofluorescence analysis of GFRA3-Ret51 receptor complex bound Artemin. Human U2OS cells were transfected with GFRA3-Ret51 expression vector followed by treatment with 100 nM Artemin. Artemin bound to the GFRA3-Ret51 receptor complex was detected by anti-Artemin antibody clone 2D12. Goat anti-mouse Dylight 488 conjugated antibody (dilution 1:1000) was used as secondary antibody. For nuclear staining DAPI was used. ArrayScan VTI platform (Thermo Scientific) was used for image acquisition (10x objective). Composite picture was generated using pseudocolors green for Artemin and blue for nuclei. A. Artemin bound to the GFRA3-Ret51 receptor complex; B. Negative control - GFRA3-Ret51 receptor expressing U2OS cells.