

## Mouse Meteorin Alexa Fluor® 700-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF3475N

100 µg

| DESCRIPTION        |   |  |  |
|--------------------|---|--|--|
| Species Reactivity | Mouse   |  |  |
| Specificity        | Detects mouse Meteorin in direct ELISAs and Western blots.  |  |  |
| Source             | Polyclonal Goat IgG   |  |  |
| Purification       | Antigen Affinity-purified   |  |  |
| Immunogen          | Mouse myeloma cell line NS0-derived recombinant mouse Meteorin isoform 1 Gly22-Asp291 Accession # Q8C1Q4  |  |  |
| Conjugate          | Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm   |  |  |
| Formulation        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide  |  |  |
|                    | *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |  |  |

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Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

Immunocytochemistry Optimal dilution of this antibody should be experimentally determined.

| PREPARATION AND STORAGE |   |  |
|-------------------------|---|--|
| Shipping                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |  |
| Stability & Storage     | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |  |

## BACKGROUND

Meteorin, named after meteor because this protein can transform glial cells into cells with an elongated tail, is a 30 kDa member of the Meteorin family (1). The secreted protein is also known as glial cell differentiation factor and hypoxia/reoxygenation regulatory factor. Mouse Meteorin is synthesized as a 291 amino acid (aa) precursor with a 21 aa signal sequence and a 270 aa mature chain. Splicing variants produce two isoforms. Isoform 2 is missing residues 1-164 found in isomer 1, and has a two aa substitution for aa 165-166. Mouse Meteorin is 81% aa identical to human Meteorin (2). Meteorin is expressed in the central nervous system both during development and in adult mice (2). During development, Meteorin mRNA appears both in the central and peripheral nervous systems with the most prominent levels in neural progenitors, glial progenitors, and cells of the astrocyte lineage. In the adult mouse, Meteorin is detected only in the brain (2). Within the brain, the most prominent expression is found in the cerebellum where it is expressed by glial cells interspersed between Purkinje neurons (2). Meteorin is also detectable in several discrete neuronal populations, such as the superior colliculus, the ocular motor nucleus, the raphe and pontine nuclei, and various thalamic nuclei (2). Functionally, Meteorin plays important roles in both glial cell differentiation and axonal network formation during neurogenesis (1). In addition, research shows that when Meteorin is expressed and secreted by perivascular astrocytes, it upregulates thrombospondin-1/-2 to attenuate angiogenesis in the surrounding endothelial cells and to promote vascular maturation (3).

## PRODUCT SPECIFIC NOTICES

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