

## Anti-METRNL Antibody Picoband® Fluoro550 Conjugated

Catalog Number: A11383-1-Fluoro550

### About METRNL

Meteorin-like/Meteorin-Beta (Metrnl)/IL-41, also known as subfatin and cometin, is a small (~27kDa) secreted cytokine, protein encoded by a gene called meteorin-like (METRNL). Meteorin-like protein (METRNL) is a 311 amino acid (aa) protein that shows 45% homology with Meteorin (in mouse). Meteorin itself is a secreted 30 kDa protein that is expressed in glial and neuronal cells and their precursors during development and in the adult. In the adult Meteorin is primarily expressed by astrocytes. Meteorin promotes neurite outgrowth, glial cell differentiation, and neuronal survival following excitotoxic injury. It also inhibits sprouting angiogenesis and promotes blood vessel maturation. Mouse Meteorin-like protein is synthesized with a 45 amino acid (aa) signal peptide and is selectively expressed in the otic vesicle during inner ear development. Mature mouse Meteorin-like protein shares 79% and 98% aa sequence identity with human and rat Meteorin-like protein, respectively. Alternate splicing generates an additional isoform that lacks the N-terminal 82 amino acids including the signal peptide. The promoter region of the METRNL gene contains a recognition site for the Pax2, Pax5, and Pax8 transcription factors, and Pax2 binds specifically to this region. METRNL is the only gene found within the terminus of the human chromosome 17 q-arm which can be deleted in the rare Ring 17 syndrome.

### Overview

Product Name	Anti-METRNL Antibody Picoband® Fluoro550 Conjugated
Reactive Species	Human
Application	Recommended applications are based on the parent unconjugated antibody (ELISA, WB). Customers may select suitable applications according to their experimental needs.
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% Na <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	Q641Q3

### Technical Details

Immunogen	E.coli-derived human METRNL recombinant protein (Position: K66-D311). Human METRNL shares 78.5% and 79.3% amino acid (aa) sequence identity with mouse and rat METRNL, respectively.
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Fluoro550 Excitation Wavelength: 562 nm

	Emission Wavelength: 576 nm
Suggested Dilutions	Optimal dilutions should be determined by end users.

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