10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# METRNL Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP57258

## Product Information

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| **Application** | IHC-P, IHC-F, IF, ICC, E |
| **Primary Accession** | Q641Q3 |
| **Reactivity** | Rat, Dog, Bovine |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 34398 |
| **Physical State** | Liquid |
| **Immunogen** | KLH conjugated synthetic peptide derived from human METRNL |
| **Epitope Specificity** | 81-180/311 |
| **Isotype** | IgG |
| **Purity** | affinity purified by Protein A |
| **Buffer** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. |
| **SUBCELLULAR LOCATION** | Secreted. |
| **SIMILARITY** | Belongs to the meteorin family. |
| **Important Note** | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **Background Descriptions** | METRNL is a 311 amino acid secreted protein belonging to the Meteorin family and may have similar roles to that of the Meteorin protein. METRNL is encoded by a gene located on human chromosome 17, which comprises over 2.5% of the human genome and encodes over 1,200 genes, some of which are involved in tumor suppression and in the pathogenesis of Li-Fraumeni syndrome, early onset breast cancer and a predisposition to cancers of the ovary, colon, prostate gland and fallopian tubes. |

## Additional Information

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| **Gene ID** | 284207 |
| **Other Names** | Meteorin-like protein, Subfatin, METRNL |
| **Target/Specificity** | Highly expressed in the skeletal muscle, in subcutaneous adipose tissue, epididymal white adipose tissue depotsand heart. Also expressed in brown adipose tissues and kidney. |
| **Dilution** | IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000 |
| **Format** | 0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce |
| **Storage** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody |

is stable for at least two weeks at 2-4 °C.

## Protein Information

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| **Name** | METRNL |
| **Function** | Hormone induced following exercise or cold exposure that promotes energy expenditure. Induced either in the skeletal muscle after exercise or in adipose tissue following cold exposure and is present in the circulation. Able to stimulate energy expenditure associated with the browning of the white fat depots and improves glucose tolerance. Does not promote an increase in a thermogenic gene program via direct action on adipocytes, but acts by stimulating several immune cell subtypes to enter the adipose tissue and activate their prothermogenic actions. Stimulates an eosinophil-dependent increase in IL4 expression and promotes alternative activation of adipose tissue macrophages, which are required for the increased expression of the thermogenic and anti-inflammatory gene programs in fat. Required for some cold-induced thermogenic responses, suggesting a role in metabolic adaptations to cold temperatures (By similarity). |
| **Cellular Location** | Secreted. |
| **Tissue Location** | Highly expressed in the skeletal muscle, in subcutaneous adipose tissue, epididymal white adipose tissue depots and heart. Also expressed in brown adipose tissues and kidney |