

## Rabbit Encephalopsin / OPN3 Polyclonal Antibody | anti-OPN3 antibody

Rabbit Polyclonal to Human Encephalopsin / OPN3

| CATALOG # | HOST   | REACTIVITY                                                                                                               | APPLICATIONS                                 |
|-----------|--------|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| AAA50942  | Rabbit | Gibbon, Human, Monkey, Rat<br><b>Predicted Reactivity:</b> Mouse, Dog, Rabbit (at least 90% immunogen sequence identity) | <b>ELISA,</b><br><b>Immunohistochemistry</b> |

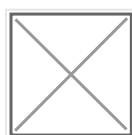
### PRODUCT SYNONYMS

Encephalopsin / OPN3; Polyclonal Antibody; Rabbit Polyclonal to Human Encephalopsin / OPN3; Anti-Encephalopsin / OPN3 Antibody (Internal) IHC-plus; OPN3; ERO; Encephalopsin; NMO-1; Opsin 3; Opsin-3; ECPN; Panopsin; Human Encephalopsin; anti-OPN3 antibody

### PRODUCT SPECIFICATIONS

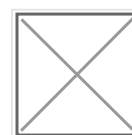
|                                                |                                                                                                                                                                                                                                                                                                               |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                                                                                                                                                                                                                        |
| Reactivity                                     | Gibbon, Human, Monkey, Rat<br><b>Predicted Reactivity:</b> Mouse, Dog, Rabbit (at least 90% immunogen sequence identity)                                                                                                                                                                                      |
| Clonality                                      | Polyclonal                                                                                                                                                                                                                                                                                                    |
| Specificity                                    | Human OPN3 / Encephalopsin. BLAST analysis of the peptide immunogen showed no homology with other human proteins.                                                                                                                                                                                             |
| Purity/Purification                            | Immunoaffinity Purified                                                                                                                                                                                                                                                                                       |
| Form/Format                                    | PBS, 0.1% sodium azide.                                                                                                                                                                                                                                                                                       |
| Concentration                                  | 1 mg/ml (varies by lot)                                                                                                                                                                                                                                                                                       |
| Sequence Length                                | 402                                                                                                                                                                                                                                                                                                           |
| Applicable Applications for anti-OPN3 antibody | ELISA, IHC (Immunohistochemistry)                                                                                                                                                                                                                                                                             |
| Target Species                                 | Human                                                                                                                                                                                                                                                                                                         |
| Immunogen Description                          | Synthetic 16 amino acid peptide from internal region of human OPN3 / Encephalopsin. Percent identity with other species by BLAST analysis: Human, Gibbon, Monkey, Marmoset, Rat (100%); Mouse, Dog, Panda, Rabbit (94%); Horse, Opossum (88%); Turkey (81%).                                                  |
| Immunogen Type                                 | Synthetic peptide                                                                                                                                                                                                                                                                                             |
| Immunogen                                      | Encephalopsin / OPN3 antibody was raised against synthetic 16 amino acid peptide from internal region of human OPN3 / Encephalopsin. Percent identity with other species by BLAST analysis: Human, Gibbon, Monkey, Marmoset, Rat (100%); Mouse, Dog, Panda, Rabbit (94%); Horse, Opossum (88%); Turkey (81%). |
| Antigen Modification                           | Internal                                                                                                                                                                                                                                                                                                      |
| Preparation and Storage                        | Long term: -70 degree C; Short term: +4 degree C                                                                                                                                                                                                                                                              |

### IMAGES



#### IHC (Immunohistochemistry)

Anti-OPN3 / Encephalopsin antibody IHC of human placenta. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



#### IHC (Immunohistochemistry)

Anti-OPN3 / Encephalopsin antibody IHC of human testis. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                     |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-OPN3 antibody | Encephalopsin, a member of the Opsin subfamily of GPCRs, is similar in sequence to vertebrate retinal and pineal opsins and may affect photoreception in the brain. |
| Product Categories/Family for anti-OPN3 antibody   | Family: GPCR; Subfamily: Opsin                                                                                                                                      |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                          |
|----------------------------------|----------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 71999131                                                                                                 |
| NCBI GeneID                      | 23596                                                                                                    |
| NCBI Accession #                 | NP_055137.2                                                                                              |
| NCBI GenBank Nucleotide #        | NM_014322.2                                                                                              |
| UniProt Accession #              | Q9H1Y3; Q8IX08; Q9Y344                                                                                   |
| Molecular Weight                 | 35,730 Da                                                                                                |
| NCBI Official Full Name          | opsin-3                                                                                                  |
| NCBI Official Synonym Full Names | opsin 3                                                                                                  |
| NCBI Official Symbol             | OPN3                                                                                                     |
| NCBI Official Synonym Symbols    | ECPN; PPP1R116                                                                                           |
| NCBI Protein Information         | opsin-3; encephalopsin; opsin 3 (encephalopsin, panopsin); protein phosphatase 1, regulatory subunit 116 |
| UniProt Protein Name             | Opsin-3                                                                                                  |
| UniProt Gene Name                | OPN3                                                                                                     |
| UniProt Synonym Gene Names       | ECPN                                                                                                     |
| UniProt Entry Name               | OPN3_HUMAN                                                                                               |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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