# Encephalopsin Polyclonal Antibody

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| **Catalog No** | YP-Ab-13213 |
| **Isotype** | IgG |
| **Reactivity** | Human;Mouse |
| **Applications** | WB;IHC;IF;ELISA |
| **Gene Name** | OPN3 |
| **Protein Name** | Opsin-3 |
| **Immunogen** | The antiserum was produced against synthesized peptide derived from human Encephalopsin. AA range:161-210 |
| **Specificity** | Encephalopsin Polyclonal Antibody detects endogenous levels of Encephalopsin protein. |
| **Formulation** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Source** | Polyclonal, Rabbit,IgG |
| **Purification** | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Dilution** | Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications. |
| **Concentration** | 1 mg/ml |
| **Purity** | ≥90% |
| **Storage Stability** | -20°C/1 year |
| **Synonyms** | OPN3; ECPN; Opsin-3; Encephalopsin; Panopsin |
| **Observed Band** | 45kD |
| **Cell Pathway** | Cell membrane ; Multi-pass membrane protein . Cytoplasm . |
| **Tissue Specificity** | Expressed in tracheal airway smooth muscle (at protein level) (PubMed:30284927). Expressed throughout the epidermis and dermis, predominantly in the basal layer on the facial and abdominal skin (at protein level) (PubMed:30168605). Expressed in dermal fibroblasts (at protein level) (PubMed:31380578). Expressed in melanocytes (at protein level) (PubMed:28842328, PubMed:31097585, PubMed:31730232). Expressed in keratinocytes (PubMed:28842328). Expressed in the retina (PubMed:30284927). |
| **Function** | function:May play a role in encephalic photoreception.,similarity:Belongs to the G-protein coupled receptor 1 family.,similarity:Belongs to the G-protein coupled receptor 1 family. Opsin subfamily.,tissue specificity:Strongly expressed in brain. Highly expressed in the preoptic area and paraventricular nucleus of the hypothalamus. Shows highly patterned expression in other regions of the brain, being enriched in selected regions of the cerebral cortex, cerebellar Purkinje cells, a subset of striatal neurons, selected thalamic nuclei, and a subset of interneurons in the ventral horn of the spinal cord., |

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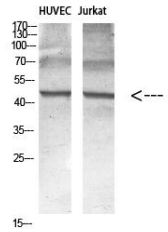
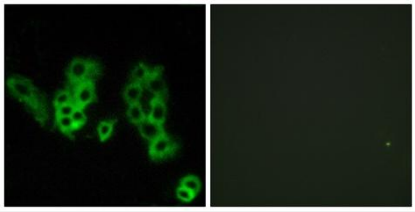
| **Background** | Opsins are members of the guanine nucleotide-binding protein (G protein)-coupled receptor superfamily. In addition to the visual opsins, mammals possess several photoreceptive non-visual opsins that are expressed in extraocular tissues. This gene, opsin 3, is strongly expressed in brain and testis and weakly expressed in liver, placenta, heart, lung, skeletal muscle, kidney, and pancreas. The gene may also be expressed in the retina. The protein has the canonical features of a photoreceptive opsin protein. [provided by RefSeq, Jul 2008], |
| **matters needing attention** | Avoid repeated freezing and thawing! |
| **Usage suggestions** | This product can be used in immunological reaction related experiments. For more information, please consult technical personnel. |

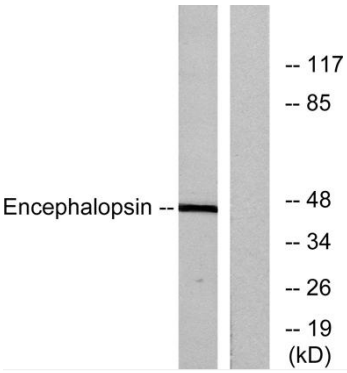
## Products Images



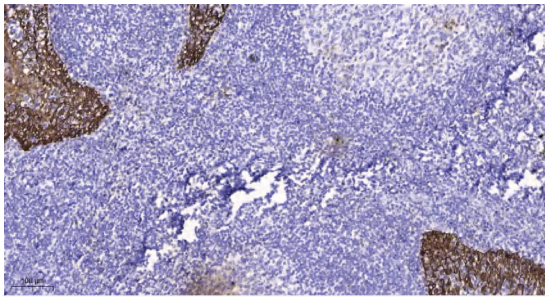

Western blot analysis of various cell Lysate, antibody was diluted at 1:1000. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Immunofluorescence analysis of MCF7 cells, using Encephalopsin Antibody. The picture on the right is blocked with the synthesized peptide.




Western blot analysis of lysates from mouse brain, using Encephalopsin Antibody. The lane on the right is blocked with the synthesized peptide.



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).