

## Neuropsin Polyclonal Antibody

Catalog # AP71259

### Specification

#### Neuropsin Polyclonal Antibody - Product Information

Application	WB, IF
Primary Accession	<a href="#">Q6U736</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal

#### Neuropsin Polyclonal Antibody - Additional Information

Gene ID 221391

##### Other Names

OPN5; GPR136; PGR12; TMEM13; Opsin-5; G-protein coupled receptor 136; G-protein coupled receptor PGR12; Neuropsin; Transmembrane protein 13

##### Dilution

WB~~Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications.

IF~~1:50~200

##### Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

##### Storage Conditions

-20°C

#### Neuropsin Polyclonal Antibody - Protein Information

Name OPN5

Synonyms GPR136, PGR12, TMEM13

##### Function

G-protein coupled receptor which selectively activates G(i) type G proteins via ultraviolet A (UVA) light-mediated activation in the retina (By similarity). Preferentially binds the chromophore 11-cis retinal and is a bistable protein that displays emission peaks at 380 nm (UVA light) and 470 nm (blue light) (PubMed:<a href="http://www.uniprot.org/citations/22043319" target="\_blank">22043319</a>). Required for the light-response in the inner plexiform layer, and contributes to the regulation of the light-response in the nerve fiber layer, via phosphorylated DAT/SLC6A3 dopamine uptake (By similarity). Involved in local corneal and retinal circadian rhythm photoentrainment via modulation of the UVA light-induced phase-shift of the retina clock (By similarity). Acts as a circadian photoreceptor in the outer ear, via modulation of circadian clock-gene expression in response to violet light during the light-to-dark transition phase and night phase of the circadian cycle (By similarity). Required in the retina to negatively regulate hyaloid

vessel regression during postnatal development via light-dependent OPN5-SLC32A1-DRD2-VEGFR2 signaling (By similarity). Involved in the light-dependent regulation of retina and vitreous compartment dopamine levels (By similarity).

**Cellular Location**

Cell membrane; Multi-pass membrane protein

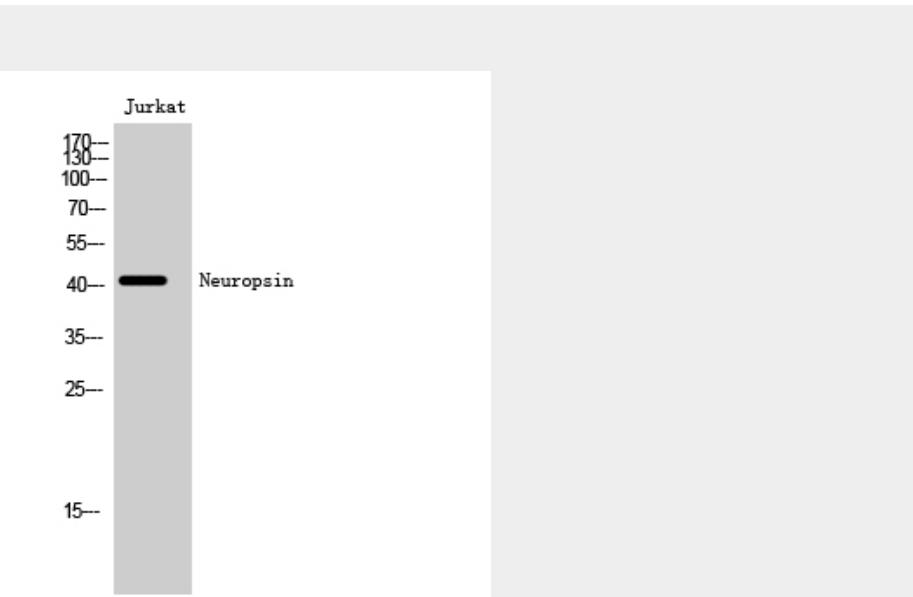
**Tissue Location**

Detected in brain and retina and cell lines derived from neural retina.

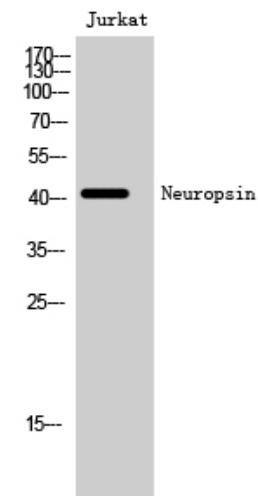
**Neuropsin Polyclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Neuropsin Polyclonal Antibody - Images**

Western Blot analysis of Jurkat cells using Neuropsin Polyclonal Antibody



Western Blot analysis of Jurkat cells using Neuropsin Polyclonal Antibody