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Neuropsin Polyclonal Antibody

Catalog # AP71259

Product Information

Application	WB, E, IHC-P
Primary Accession	Q6U736
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	39727

Additional Information

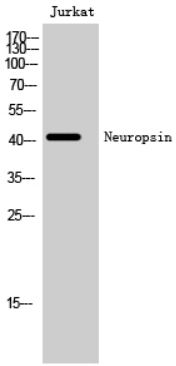
Gene ID	221391
Other Names	OPN5; GPR136; PGR12; TMEM13; Opsin-5; G-protein coupled receptor 136; G-protein coupled receptor PGR12; Neuropsin; Transmembrane protein 13
Dilution	WB~~Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications. E~~N/A IHC-P~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

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:22043319). 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.

Images



Western Blot analysis of Jurkat cells using Neuropsin Polyclonal Antibody