

**DESCRIPTION**

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Opticin in direct ELISAs and Western blots. In direct ELIAs and Western blots, no cross-reactivity with recombinant mouse Opticin is observed.
<b>Source</b>	Monoclonal Rat IgG <sub>2A</sub> Clone # 361328
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human Opticin Ala20-Thr332 Accession # Q9UBM4
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

**APPLICATIONS**

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	1 µg/mL	Recombinant Human Opticin

**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**BACKGROUND**

Opticin (Oculoglycan) is a member of the small leucine-rich proteoglycan (SLRP) family with homology to class III extracellular matrix family members Epiphycan and Mimecan. It forms a 90 kDa noncovalent dimer that is a component of vitreous collagen fibrils in the eye and is also expressed in the retina, iris, ligaments and skin. Mature human Opticin shares 73% and 65% aa identity with mouse and rat, respectively. Mutations of Opticin have been associated with age-related macular degeneration.