

Recombinant Mouse Rp1 Protein, His-tagged

Cat. No. Rp1-2028M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Rp1 Protein (Lys35-Asp236) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Lys35-Asp236
Description	This gene encodes a member of the doublecortin family. The protein encoded by this gene contains two doublecortin domains, which bind microtubules and regulate microtubule polymerization. The encoded protein is a photoreceptor microtubule-associated protein and is required for correct stacking of outer segment disc. This protein and the RP1L1 protein, another retinal-specific protein, play essential and synergistic roles in affecting photosensitivity and outer segment morphogenesis of rod photoreceptors. Because of its response to in vivo retinal oxygen levels, this protein was initially named ORP1 (oxygen-regulated protein-1). This protein was subsequently designated RP1 (retinitis pigmentosa 1) when it was found that mutations in this gene cause autosomal dominant retinitis pigmentosa. Mutations in this gene also cause autosomal recessive retinitis pigmentosa.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 26.3 kDa Accurate Molecular Mass: 31 kDa

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Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	Rp1 retinitis pigmentosa 1 (human) [Mus musculus (house mouse)]
Official Symbol	Rp1
Synonyms	Rp1; retinitis pigmentosa 1 (human); Orp1; Rp1h; Dcdc3; mG145; Gm38717; oxygen-regulated protein 1; lipoxygenase homology domain-containing protein 1; retinitis pigmentosa 1 homolog; retinitis pigmentosa RP1 protein homolog
Gene ID	19888
mRNA Refseq	NM_011283
Protein Refseq	NP_035413

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