

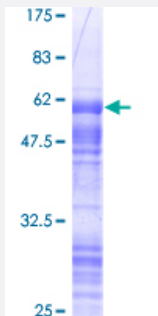
Full-Length

CRX (Human) Recombinant Protein (P01)

Catalog # H00001406-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human CRX full-length ORF (AAH16664, 1 a.a. - 299 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MMAYMNP GPHYSVNALALSGPSVDLMHQAVPYPSAPRKQRRERTTFTRSQLEEELEALFAKTQYP
DYYAREEVALKINLPESRVQVWFKNRRAKCRQQRQQKQQQQPPGGQAKARPAKRKAGTSPR
PSTDVCPDPLGISDSYSPPLPGPSGSPPTAVATVSIWSPASESPLPEAQRAGLVASGPSLTSAPY
AMTYAPASAFCCSSPAYGSPSSYFSGLDPYLSPMVPQLGGPALSPLSGPSVGPSLAQSPTSLSG
QSYGAYSPVDSLEFKDPTGTWKFTYNPMDPLDYKDQSAWKFQIL

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

58.63

Interspecies Antigen Sequence

Mouse (97); Rat (97)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — CRX

Entrez GeneID[1406](#)**GeneBank Accession#**[BC016664](#)**Protein Accession#**[AAH16664](#)**Gene Name**

CRX

Gene Alias

CORD2, CRD, LCA7, OTX3

Gene Description

cone-rod homeobox

Omim ID[120970](#) [268000](#) [602225](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

The protein encoded by this gene is a photoreceptor-specific transcription factor which plays a role in the differentiation of photoreceptor cells. This homeodomain protein is necessary for the maintenance of normal cone and rod function. Mutations in this gene are associated with photoreceptor degeneration, Leber congenital amaurosis type III and the autosomal dominant cone-rod dystrophy 2. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some variants has not been determined. [provided by RefSeq]

Other Designations

cone-rod homeobox protein|orthodenticle homeobox 3

Publication Reference

- [Plasma Antiretinal Autoantibody Profiling and Diagnostic Efficacy in Patients With Autoimmune Retinopathy.](#)

Seok Hyun Bae, Hye Kyoung Hong, Jong Young Lee, Min Seok Kim, Christopher Seungkyu Lee, Min Sagong, Sook Young Kim, Baek-Lok Oh, Young Hee Yoon, Jae Pil Shin, Young Joon Jo, Kwangsic Joo, Sang Jun Park, Kyu Hyung Park, Se Joon Woo.

American Journal of Ophthalmology 2022 Jul; 245:145.

Application: WB, Human, Human plasma

- [CRX Is a Diagnostic Marker of Retinal and Pineal Lineage Tumors.](#)

Santagata S, Maire CL, Idbaih A, Geffers L, Correll M, Holton K, Quackenbush J, Ligon KL.

PLoS One 2009 Nov; 4(11):e7932.

Application: Dot, IHC, Human, H120 Crx antibody, human retina and retinoblastoma

Disease

- [Blindness](#)
- [Optic Atrophy](#)
- [Retinal Diseases](#)
- [Retinitis Pigmentosa](#)