

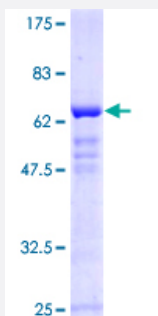
Full-Length

SOX2 (Human) Recombinant Protein (P01)

Catalog # H00006657-P01

Size 10 ug, 25 ug

Applications



Specification

Product Description

Human SOX2 full-length ORF (AAH13923, 1 a.a. - 317 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MYNMMETELKPPGPQQTSGGGGGNSTAAAAGGNQKNSPDRVKRPMNAFMVWSRGHRRKMAQ
ENPKMHNSEISKRLGAEWKLLSETEKRPFIDEAKRLRALHMKHEHPDYKYRPRRKTTLMKKDKYT
LPGGLLAPGGNSMASGVGVGAGLGAGVNQRMDSYAHMNGWSNGSYSMMQDQLGYPQHPLN
AHGAAQMMPMHRYDVSALQYNSMTSSQTYMNGSPTYMSYSQQGTPGMALGSMGSSVVKSEAS
SSPPVVTSSSHSRAPCQAGDLRDMISMYLPGAIEVPEPAAPSRHMSQHYQSGPVPGTAINGTLP
LSHM

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

60.61

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 — SOX2

Entrez GeneID [6657](#)

GeneBank Accession# [BC013923](#)

Protein Accession# [AAH13923](#)

Gene Name SOX2

Gene Alias ANOP3, MCOPS3, MGC2413

Gene Description SRY (sex determining region Y)-box 2

Omim ID [184429](#) [206900](#)

Gene Ontology [Hyperlink](#)

Gene Summary This intronless gene encodes a member of the SRY-related HMG-box (SOX) family of transcription factors involved in the regulation of embryonic development and in the determination of cell fate. The product of this gene is required for stem-cell maintenance in the central nervous system, and also regulates gene expression in the stomach. Mutations in this gene have been associated with optic nerve hypoplasia and with syndromic microphthalmia, a severe form of structural eye malformation. This gene lies within an intron of another gene called SOX2 overlapping transcript (SOX2 OT). [provided by RefSeq]

Other Designations SRY-related HMG-box gene 2|sex-determining region Y-box 2|transcription factor SOX2

Disease

- [Anophthalmos](#)
- [Coloboma](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)
- [Microphthalmos](#)
- [Myopia](#)