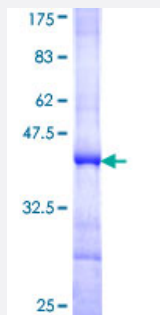


SPO11 (Human) Recombinant Protein (Q01)

Catalog # H00023626-Q01

Size 25 ug, 10 ug

Applications



Specification

| | |
|--------------------------------------|--|
| Product Description | Human SPO11 partial ORF (NP_036576, 291 a.a. - 395 a.a.) recombinant protein with GST-tag at N-terminal. |
| Sequence | YGSM SMSFEAHLTVPAIRWLGLLP S D L K R L N V P K D S L I P L T K R D Q M K L D S I L R R P Y V T C Q P F W R K E M E I M A D S K M K A E I Q A L T F L S S D Y L S R V Y L P N K L K F G G W |
| Host | Wheat Germ (in vitro) |
| Theoretical MW (kDa) | 37.29 |
| Interspecies Antigen Sequence | Mouse (73); Rat (80) |
| 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 — SPO11

| | |
|---------------------|--|
| Entrez GeneID | 23626 |
| GeneBank Accession# | NM_012444 |
| Protein Accession# | NP_036576 |
| Gene Name | SPO11 |
| Gene Alias | MGC39953 |
| Gene Description | SPO11 meiotic protein covalently bound to DSB homolog (S. cerevisiae) |
| Omim ID | 605114 |
| Gene Ontology | Hyperlink |
| Gene Summary | Meiotic recombination and chromosome segregation require the formation of double-strand breaks (DSBs) in paired chromosome homologs. During meiosis in yeast, a meiotic recombination protein is covalently-linked to the 5' end of DSBs and is essential for the formation of DSBs. The protein encoded by this gene is similar in sequence and conserved features to the yeast meiotic recombination protein. The encoded protein belongs to the TOP6A protein family. Several transcript variants encoding different isoforms have been found for this gene, but the full-length nature of only two of them have been described. [provided by RefSeq] |
| Other Designations | OTTHUMP000000031360 OTTHUMP000000031361 SPO11 meiotic protein covalently bound to DSB-like SPO11, meiotic protein covalently bound to DSB-like meiotic recombination protein SPO11 |

Disease

- [Azoospermia](#)

- [Genetic Predisposition to Disease](#)
- [Infertility](#)
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