

Recombinant Human ESPL1 Protein, GST-tagged

Cat. No. ESPL1-3502H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ESPL1 partial ORF (NP_036423, 586 a.a. - 701 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	Stable cohesion between sister chromatids before anaphase and their timely separation during anaphase are critical for chromosome inheritance. In vertebrates, sister chromatid cohesion is released in 2 steps via distinct mechanisms. The first step involves phosphorylation of STAG1 (MIM 604358) or STAG2 (MIM 300826) in the cohesin complex. The second step involves cleavage of the cohesin subunit SCC1 (RAD21; MIM 606462) by ESPL1, or separase, which initiates the final separation of sister chromatids (Sun et al., 2009 [PubMed 19345191]).[supplied by OMIM, Nov 2010]
Molecular Mass	38.5 kDa
AA Sequence	REELQAYKAVRADTGQERFNIICDLELSPEETPAGAWARATHLVELAQVLCYHDFT QQTNCSDALDAIREALQLLDSVRPEAQARDQLLDDKAQALLWLYICTLEAKIQEGIERD R
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production

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 45-1 Ramsey Road, Shirley, NY 11967, USA

Protein Array

Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

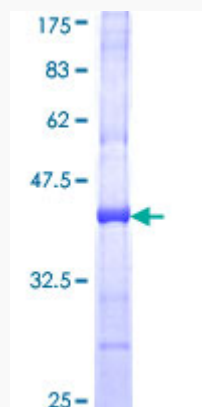
Gene Name	ESPL1 extra spindle pole bodies homolog 1 (S. cerevisiae) [Homo sapiens]
Official Symbol	ESPL1
Synonyms	ESPL1; extra spindle pole bodies homolog 1 (S. cerevisiae); extra spindle poles like 1 (S. cerevisiae); separin; ESP1; KIAA0165; SEPA; separase; caspase-like protein ESPL1; extra spindle poles like 1; extra spindle poles-like 1 protein; FLJ46492;
Gene ID	9700
mRNA Refseq	NM_012291
Protein Refseq	NP_036423
MIM	604143
UniProt ID	Q14674

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**Quality Control
Testing**



12.5% SDS-PAGE Stained with Coomassie Blue.

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