

Recombinant Human ERG protein ab185597

Description

Product name	Recombinant Human ERG protein
Purity	> 90 % SDS-PAGE. ab185597 was expressed in E. coli as inclusion bodies, refolded using temperature shift inclusion body refolding technology and chromatographically purified.
Expression system	Escherichia coli
Accession	<u>P11308-4</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	<pre> MASMTGGQQMGRGHHHHHHENLYFQGSASTIKEALSVVS EDQSLFECAYG TPHLAKTEMTASSSSDYGQTSKMSRPVQQDWLSQPPA RVTIKMECNPSQ VNGSRNSPDECSVAKGGKMGVSPDTVGMNYGSYMEEK HMPPPNNMTNERR VMPADPTLWSTDHVRQWLEWAVKEYGLPDVNILLFQNI DKELCKMTKD DFQRLTPSYNADILLSHLHYLRETPLPHLTSDDVDKALQNS PRLMHARNT GGAAFIFPNTSVYPEATQRITRDLPEPPRRSAWTGHG HPTPQSKAAQ PSPSTVPKTEDQRPQLDPYQILGPTSSRLANPGSGQIQLW QFLLELLSDS SNSSCITWEGTNGEFKMTDPDEVARRWGERKSKPNMNY DKLSRALRYYYD KNIMTKVHGKRYAYKDFDHGIAQALQHPPESSLYKYP SDLPYMGSYHAH PQKMNFVAPHPALPVTSSSFFAAPNPYWNSTGGY PNTRLPTSHMPSH LGTYLEESGGGGSPGRRRRRRRRRR </pre>
Predicted molecular weight	59 kDa including tags
Amino acids	2 to 479
Tags	His-T7 tag N-Terminus
Additional sequence information	Constructed with a T7-His-TEV cleavage site Tag (27 amino acids) fusion at the N-terminal and

11R tag at the C-terminal.

Specifications

Our **Abpromise guarantee** covers the use of **ab185597** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Form	Liquid
Additional notes	<ol style="list-style-type: none">1. May be used for in vitro ERG mediated HSC differentiation regulation study using either 11R mediated or "ProFectin" based intracellular delivery of this protein.2. May be used as specific protein substrate for kinase and ubiquitin (Sumo pathway) related enzyme functional screening assays.3. May be used for EGR protein-protein interaction mapping.4. Potential diagnostic biomarker protein for monitoring various cancer treatment outcomes.5. As immunogen for specific antibody production.

Preparation and Storage

Stability and Storage	<p>Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.</p> <p>pH: 8.00</p> <p>Constituent: 0.32% Tris HCl</p> <p>Contains NaCl, EDTA, KCl, arginine, DTT and glycerol</p>
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General Info

Function	Transcriptional regulator. May participate in transcriptional regulation through the recruitment of SETDB1 histone methyltransferase and subsequent modification of local chromatin structure.
Involvement in disease	<p>Defects in ERG are a cause of Ewing sarcoma (ES) [MIM:612219]. A highly malignant, metastatic, primitive small round cell tumor of bone and soft tissue that affects children and adolescents. It belongs to the Ewing sarcoma family of tumors, a group of morphologically heterogeneous neoplasms that share the same cytogenetic features. They are considered neural tumors derived from cells of the neural crest. Ewing sarcoma represents the less differentiated form of the tumors. Note=A chromosomal aberration involving ERG is found in patients with Erwing sarcoma. Translocation t(21;22)(q22;q12) with EWSR1.</p> <p>Note=Chromosomal aberrations involving ERG have been found in acute myeloid leukemia (AML). Translocation t(16;21)(p11;q22) with FUS. Translocation t(X;21)(q25-26;q22) with ELF4.</p>
Sequence similarities	<p>Belongs to the ETS family.</p> <p>Contains 1 ETS DNA-binding domain.</p> <p>Contains 1 PNT (pointed) domain.</p>
Cellular localization	Nucleus. Cytoplasm. Localized in cytoplasmic mRNP granules containing untranslated mRNAs.

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