

Datasheet for ABIN2720464

ERG Protein (Transcript Variant 1) (Myc-DYKDDDDK Tag)[Go to Product page](#)

2 Images

1 Publication

Overview

Quantity:	20 µg
Target:	ERG
Protein Characteristics:	Transcript Variant 1
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This ERG protein is labelled with Myc-DYKDDDDK Tag.
Application:	Antibody Production (AbP), Standard (STD), Functional Studies (Func), Protein Interaction (PI)

Product Details

Specificity:	Optimal preservation of protein structure, post-translational modifications and functions.
Characteristics:	<ul style="list-style-type: none">• Recombinant human ERG (transcript variant 1) protein expressed in HEK293 cells.• Produced with end-sequenced ORF clone• Tested for bioactivity.
Purity:	> 80 % as determined by SDS-PAGE and Coomassie blue staining
Biological Activity Comment:	Varying amounts of human ERG expressed in HEK293 cells was incubated for one hour with wild-type or mutant biotinylated oligonucleotide (1 pmole/ul) in the presence of 25 ug/ml poly dI:dC. The reaction mixture was subsequently transferred to a microplate containing 2500 Luminex beads coupled with anti-ERG monoclonal antibody 2G8. The ERG-oligo complexes were captured onto the antibody-coated beads for two hours at room temperature with

Product Details

shaking. The beads were then washed, and the biotin was detected with streptavidin-phycoerythrin for 30 minutes. The beads were washed again and the fluorescent intensity was read in the Luminex instrument. The wild-type oligonucleotide carried ACCGGAAGT consensus binding sequence while the mutant oligonucleotide was identical except for a 2-base mutation in the consensus binding region, ACCCCAAGT

Target Details

Target:	ERG
Alternative Name:	Erg (ERG Products)
Background:	Transcriptional regulator. May participate in transcriptional regulation through the recruitment of SETDB1 histone methyltransferase and subsequent modification of local chromatin structure. [UniProtKB/Swiss-Prot Function]
Molecular Weight:	53.7 kDa
NCBI Accession:	NP_891548

Application Details

Application Notes:	Recombinant human proteins can be used for: Native antigens for optimized antibody production Positive controls in ELISA and other antibody assays Protein-protein interaction In vitro biochemical assays and cell-based functional assays
Comment:	The tag is located at the C-terminal.
Restrictions:	For Research Use only

Handling

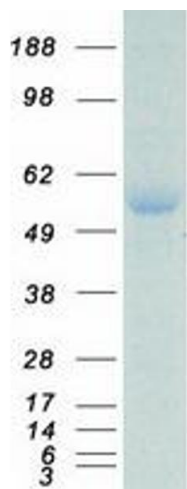
Concentration:	> 50 µg/mL
Buffer:	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.
Storage:	-80 °C
Storage Comment:	Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze immediately. Only 2-3 freeze thaw cycles are recommended.

Publications

Product cited in: Sun, Wu, Cai, Wang, Liu, Blot, Shu, Cai: "A prospective study of autoantibodies to Ezrin and pancreatic cancer risk." in: **Cancer causes & control : CCC**, Vol. 27, Issue 6, pp. 831-5, (2016) ([PubMed](#)).

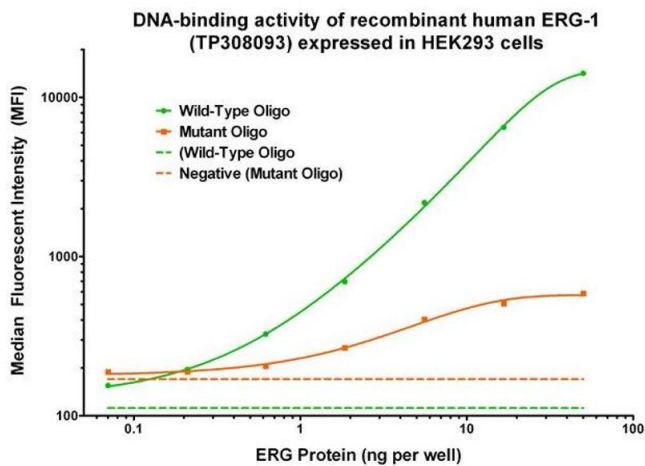
Miyaji, Shahrizaila, Umapathi, Chan, Hirata, Yuki: "Are ERM (ezrin/radixin/moesin) proteins targets for autoantibodies in demyelinating neuropathies?" in: **Human immunology**, Vol. 75, Issue 11, pp. 1089-91, (2015) ([PubMed](#)).

Images



Western Blotting

Image 1. Validation with Western Blot



Activity Assay

Image 2. Bioactivity measured with Activity Assay