ERG Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ERG, Polyclonal Antibody
Full Product Name	ERG Antibody; HRP conjugated
Product Gene Name	anti-ERG antibody
Product Synonym Names	Transcriptional regulator ERG; Transforming protein ERG; ERG
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%,Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery, aliquot and store at -20 degree C or -80 degree C.
Matching Pairs	Unconjugated Antibody: ERG (MBS7002406) HRP Conjugated Antibody: ERG (MBS7002646)
Molecular Weight	36,541 Da
OMIM	165080
3D Structure	ModBase 3D Structure for P11308
Immunogen	Recombinant human Transcriptional regulator ERG protein
Conjugation	HRP
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-18136 / sc-354 / sc-353 / sc-28680
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-ERG antibody	ELISA (EIA)
Related Product Information for anti-ERG antibody	Transcriptional regulator. May participate in transcriptional regulation through the recruitment of SETDB1 histone methyltransferase and subsequent modification of local chromatin structure.
Other Notes	Small volumes of anti-ERG antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ERG purchase	MBS7002646 is an antibody targeting ERG. Also known as ERG Antibody; HRP conjugated. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ERG. It may not necessarily be applicable to this product.

NCBI GI #	209954797

NCBI GeneID	2078
NCBI Accession #	NP_001129626.1
UniProt Primary Accession #	P11308
UniProt Secondary Accession #	Q16113; Q6XXX4; Q6XXX5; Q8IXK9; B4DTW5; B4E0T4
UniProt Related Accession #	P11308
GenBank Nucleotide #	NM_001136154.1
NCBI Official Full Name	transcriptional regulator ERG isoform 3
NCBI Official Synonym Full Names	v-ets avian erythroblastosis virus E26 oncogene homolog
NCBI Official Symbol	ERG
NCBI Official Synonym Symbols	p55; erg-3
UniProt Protein Name	Transcriptional regulator ERG
UniProt Synonym Protein Names	Transforming protein ERG
Protein Family	Delta(14)-sterol reductase
UniProt Gene Name	ERG
UniProt Entry Name	ERG_HUMAN
NCBI Protein Information	transcriptional regulator ERG
NCBI Summary for ERG	This gene encodes a member of the erythroblast transformation-specific (ETS) family of transcriptions factors. All members of this family are key regulators of embryonic development, cell proliferation, differentiation, angiogenesis, inflammation, and apoptosis. The protein encoded by this gene is mainly expressed in the nucleus. It contains an ETS DNA-binding domain and a PNT (pointed) domain which is implicated in the self-association of chimeric oncoproteins. This protein is required for platelet adhesion to the subendothelium, inducing vascular cell remodeling. It also regulates hematopoesis, and the differentiation and maturation of megakaryocytic cells. This gene is involved in chromosomal translocations, resulting in different fusion gene products, such as TMPSSR2-ERG and NDRG1-ERG in prostate cancer, EWS-ERG in Ewing's sarcoma and FUS-ERG in acute myeloid leukemia. More than two dozens of transcript variants generated from combinatorial usage of three alternative promoters and multiple alternative splicing events have been reported, but the full-length nature of many of these variants has not been determined. [provided by RefSeq, Apr 2014]
UniProt Comments for ERG	ERG: Transcriptional regulator. May participate in transcriptional regulation through the recruitment of SETDB1 histone methyltransferase and subsequent modification of local chromatin structure. Defects in ERG are a cause of Ewing sarcoma (ES). 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. A chromosomal aberration involving ERG is found in patients with Erwing sarcoma. Translocation t(21;22)(q22;q12) with EWSR1. 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. Belongs to the ETS family. 6 isoforms of the human protein are produced by alternative splicing. Protein type: Oncoprotein; DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 21q22.3 Cellular Component: cytoplasm; nucleus; ribonucleoprotein complex Molecular Function: chromatin binding; DNA binding; protein binding; sequence-specific DNA binding; signal transducer activity Biological Process: cell differentiation; cell migration; cell proliferation; multicellular organismal development; protein amino acid phosphorylation; regulation of transcription from RNA polymerase II promoter; signal transduction; transcription, DNA-dependent

Research Articles on ERG	**1.** Elucidation of ERG regulation of ABEs in castration-resistant prostate cancer (CRPC) may help to stratify TMPRSS2-ERG fusion-positive prostate cancer patients in the clinic for anti-androgen receptor-driven therapies.
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