



## Human ERG peptide (DAG-P1601)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

#### Antigen Description

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 hematopoiesis, 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 Ewings 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]

#### Conjugate

Unconjugated

#### Sequence Similarities

Belongs to the ETS family.Contains 1 ETS DNA-binding domain.Contains 1 PNT (pointed) domain.

#### Format

Liquid

#### Preservative

None

#### Storage

Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

### GENE INFORMATION

#### Gene Name

[ERG v-ets avian erythroblastosis virus E26 oncogene homolog \[ Homo sapiens \(human\) \]](#)

#### Official Symbol

ERG

<b>Synonyms</b>	ERG; v-ets avian erythroblastosis virus E26 oncogene homolog; p55; erg-3; transcriptional regulator ERG; ets-related; TMPRSS2/ERG fusion; v-ets erythroblastosis virus E26 oncogene like; v-ets erythroblastosis virus E26 oncogene homolog; v-ets avian erythroblastosis virus E26 oncogene related; transcriptional regulator ERG (transforming protein ERG);
<b>Entrez Gene ID</b>	<a href="#">2078</a>
<b>mRNA Refseq</b>	<a href="#">NM_001136154.1</a>
<b>Protein Refseq</b>	<a href="#">NP_001129626.1</a>
<b>UniProt ID</b>	B4DN83
<b>Chromosome Location</b>	21q22.3
<b>Pathway</b>	Prostate Cancer, organism-specific biosystem; Transcriptional misregulation in cancer, organism-specific biosystem; Transcriptional misregulation in cancer, conserved biosystem;
<b>Function</b>	DNA binding; protein binding; sequence-specific DNA binding; sequence-specific DNA binding RNA polymerase II transcription factor activity; signal transducer activity;