

Product datasheet

Anti-ERG antibody [EPR3864(2)] - BSA and Azide free
ab174739

Recombinant RabMAb

7 Images

Overview

Product name	Anti-ERG antibody [EPR3864(2)] - BSA and Azide free
Description	Rabbit monoclonal [EPR3864(2)] to ERG - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IHC-P, Flow Cyt, ICC/IF, WB, IP
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthetic peptide. within Human ERG aa 450 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: P11308
General notes	The formulation and the concentration of this product is compatible for metal-conjugation for mass cytometry (CyTOF®). Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents . This product is a recombinant rabbit monoclonal antibody .

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at -20°C.
Storage buffer	Constituent: PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR3864(2)
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab174739** in the following tested applications.

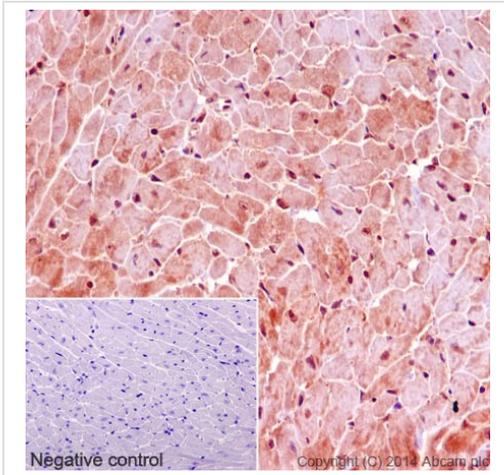
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. See IHC antigen retrieval protocols .
Flow Cyt		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 55 kDa (predicted molecular weight: 54 kDa).
IP		Use at an assay dependent concentration.

Target

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	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. 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.
Sequence similarities	Belongs to the ETS family. Contains 1 ETS DNA-binding domain. Contains 1 PNT (pointed) domain.
Cellular localization	Nucleus. Cytoplasm. Localized in cytoplasmic mRNP granules containing untranslated mRNAs.

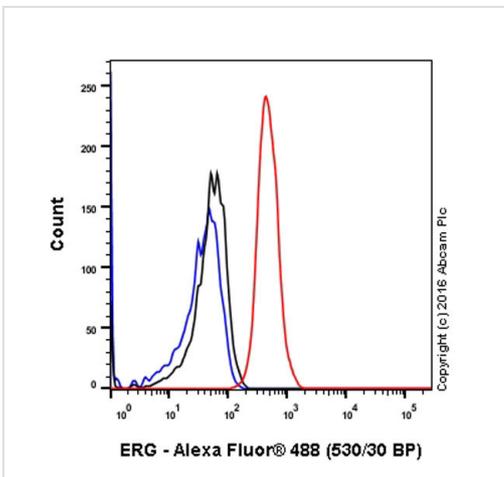
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ERG antibody [EPR3864(2)] - BSA and Azide free (ab174739)

Immunohistochemical staining of paraffin embedded mouse cardiac muscle with purified [ab133264](#) at a working dilution of 1 in 250. The secondary antibody used is a HRP goat anti-rabbit H+L ([ab97051](#)). The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab133264](#)).



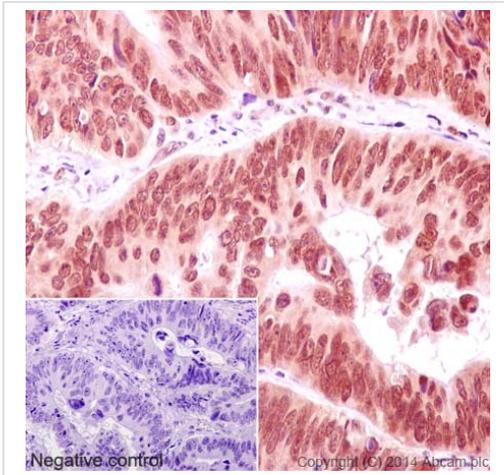
Flow Cytometry - Anti-ERG antibody [EPR3864(2)] - BSA and Azide free (ab174739)

[ab133264](#) staining ERG in the human cell line MCF-7 (human breast carcinoma) by flow cytometry. Cells were fixed with 4% paraformaldehyde, permeabilized with 90% methanol and the sample was incubated with the primary antibody at a dilution of 1/210. A goat anti rabbit IgG (Alexa Fluor® 488) at a dilution of 1/2000 was used as the secondary antibody.

Isotype control: Rabbit monoclonal IgG (Black)

Unlabelled control: Cell without incubation with primary antibody and secondary antibody (Blue)

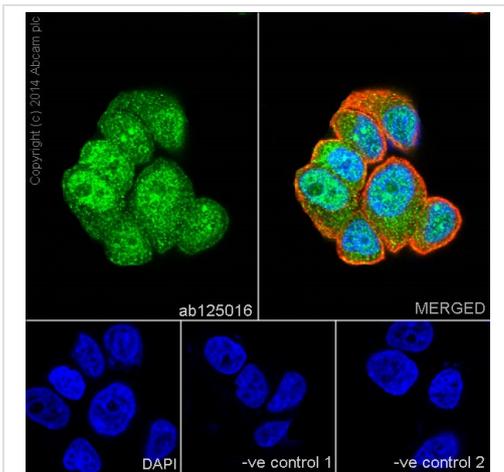
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab133264](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ERG antibody [EPR3864(2)] - BSA and Azide free (ab174739)

Immunohistochemical staining of paraffin embedded human colonic carcinoma with purified [ab133264](#) at a working dilution of 1 in 250. The secondary antibody used is a HRP goat anti-rabbit H+L ([ab97051](#)). The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.

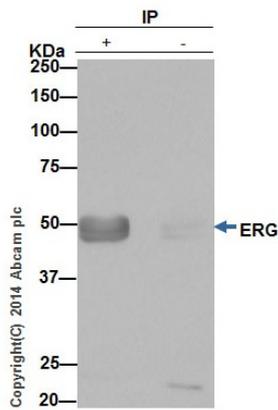
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab133264](#)).



Immunocytochemistry/ Immunofluorescence - Anti-ERG antibody [EPR3864(2)] - BSA and Azide free (ab174739)

Immunofluorescence staining of MCF7 cells with purified [ab133264](#) at a working dilution of 1 in 500, counter-stained with DAPI. The secondary antibody was Alexa Fluor[®] 488 goat anti rabbit ([ab150077](#)), used at a dilution of 1 in 500. [ab7291](#) was used to stain tubulin, and this is shown in the top right hand panel. The cells were fixed in 4% PFA and permeabilized using 0.1% Triton X 100. The negative control is shown in bottom middle and right hand panels - for the negative controls, purified [ab133264](#) was used at a dilution of 1/200 followed by an Alexa Fluor[®] 594 goat anti-mouse antibody at a dilution of 1/500.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab133264](#)).



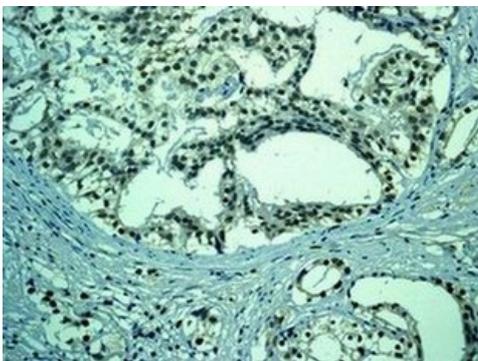
Immunoprecipitation - Anti-ERG antibody
[EPR3864(2)] - BSA and Azide free (ab174739)

[ab133264](#) (purified) at 1/30 immunoprecipitating ERG in HEK293 cells (Lane 1). Lane 2 - PBS. For western blotting, a HRP-conjugated anti-rabbit IgG, specific to the non-reduced form of IgG was used as the secondary antibody (1/1500).

Blocking buffer and concentration: 5% NFDm/TBST.

Diluting buffer and concentration: 5% NFDm /TBST.

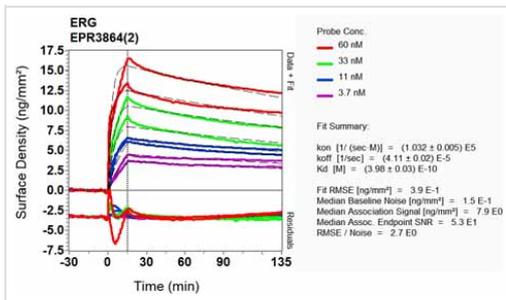
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab133264](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ERG antibody
[EPR3864(2)] - BSA and Azide free (ab174739)

Immunohistochemical analysis of paraffin embedded human prostate adenocarcinoma tissue labelling ERG with [ab133264](#) at a dilution of 1/100.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab133264](#)).



Other - Anti-ERG antibody [EPR3864(2)] - BSA and Azide free (ab174739)

Equilibrium dissociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab133264](#)).

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