

ERK1 antibody [12D11]

Cat. No. GTX15780

Host	Mouse
Clonality	Monoclonal
Isotype	IgG
Applications	WB, ICC/IF, IHC-P, ChIP assay
Reactivity	Human, Mouse, Primate

Package
100 µl

Applications

Application Note

*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Recommended dilution
WB	1:1000
ICC/IF	2 µg/ml
IHC-P	1:100
ChIP assay	1-3 µl

Not tested in other applications.

Calculated MW 43 kDa. ([Note](#))

Product Note This antibody does not cross react with ERK2.

Properties

Form	Liquid
Buffer	PBS, 0.1% BSA
Preservative	0.05% Sodium azide
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
Concentration	1 mg/ml (Please refer to the vial label for the specific concentration.)
Immunogen	Full-length human recombinant protein expressed in bacteria.
Purification	Protein A purified
Conjugation	Unconjugated

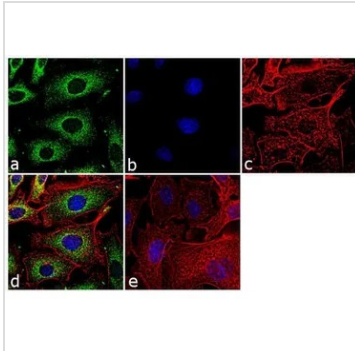


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Note

Purchasers shall not, and agree not to enable third parties to, analyze, copy, reverse engineer or otherwise attempt to determine the structure or sequence of the product.

DATA IMAGES

GTx15780 ICC/IF Image

ICC/IF analysis of A549 cells using GTx15780 ERK1 antibody [12D11]. Panel e is a no primary antibody control.

Green : Primary antibody

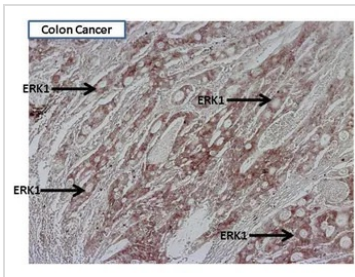
Blue : Nuclei

Red : Actin

Fixation : 4% paraformaldehyde

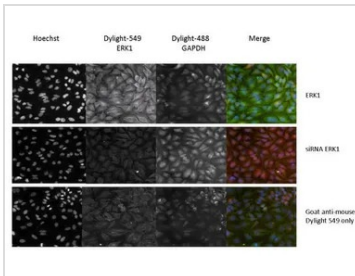
Permeabilization : 0.1% Triton X-100 for 10 minute

Dilution : 2 µg/ml in 0.1% BSA and incubated for 3 hours at room temperature


GTx15780 IHC-P Image

IHC-P analysis of human colon tissue using GTx15780 ERK1 antibody [12D11].

Antigen retrieval : heat induced antigen retrieval was performed using 10mM sodium citrate (pH6.0) buffer for 20 minutes at 95°C

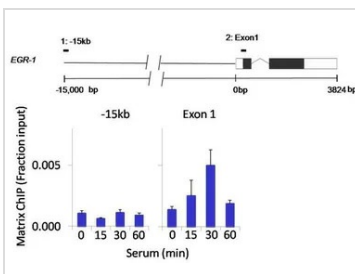

GTx15780 ICC/IF Image

ICC/IF analysis of untreated and siRNA knockdown treated HeLa cells using GTx15780 ERK1 antibody [12D11].

Fixation : Formalin

Permeabilization : 0.1% Triton X-100 in TBS for 15 minutes at room temperature

Dilution : 1:100 for at least 1 hour at room temperature


GTx15780 ChIP assay Image

ChIP analysis of 1x10⁶ HCT116 colon carcinoma cells treated with serum for 0, 15, 30, and 60 minutes using GTx15780 ERK1 antibody [12D11]. Immunoprecipitation was performed using a multiplex microplate Matrix ChIP assay (refer to PMID: 22098709). The precipitated DNA was detected by PCR with primer set targeting to -15kb upstream of the Egr1 gene or exon-1 of Egr1.

IP reaction : 1.0ul antibody / 100ul sample



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