

## ERK1 antibody [12D11]

**Cat. No. GTX15780**

<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	IgG
<b>Applications</b>	WB, ICC/IF, IHC-P, ChIP assay
<b>Reactivity</b>	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

<b>Form</b>	Liquid
<b>Buffer</b>	PBS, 0.1% BSA
<b>Preservative</b>	0.05% Sodium azide
<b>Storage</b>	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.
<b>Concentration</b>	1 mg/ml (Please refer to the vial label for the specific concentration.)
<b>Immunogen</b>	Full-length human recombinant protein expressed in bacteria.
<b>Purification</b>	Protein A purified
<b>Conjugation</b>	Unconjugated

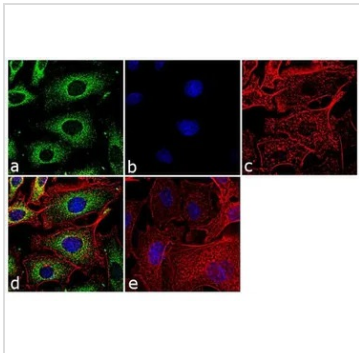


For full product information, images and publications, please visit our [website](#).

For laboratory research use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

**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

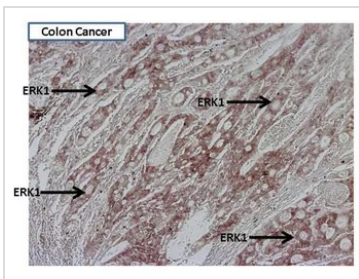
Blue : Nuclei

Red : Actin

Fixation : 4% paraformaldehyde

Permeabilization : 0.1% Triton X-100 for 10 minute

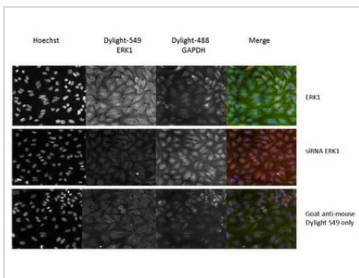
Dilution : 2 µg/ml in 0.1% BSA and incubated for 3 hours at room temperature



**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



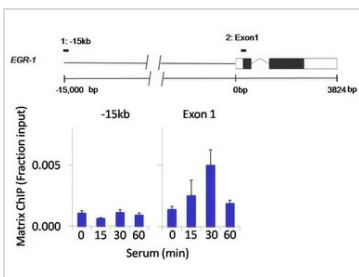
**GTX15780 ICC/IF Image**

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 1x10<sup>6</sup> 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



For full product information, images and publications, please visit our [website](#).