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[KD Validated] ERK1 Rabbit mAb

Catalog No.: A19561

Recombinant | 4 Publications

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Basic Information

Observed MW
44kDa

Calculated MW
43kDa

Category
Monoclonal Antibodies

Applications
WB, IP, IHC-P, ELISA

Cross Reactivity
Human, Mouse

Clone No.
ARC2591

Background

The protein encoded by this gene is a member of the MAP kinase family. MAP kinases, also known as extracellular signal-regulated kinases (ERKs), act in a signaling cascade that regulates various cellular processes such as proliferation, differentiation, and cell cycle progression in response to a variety of extracellular signals. This kinase is activated by upstream kinases, resulting in its translocation to the nucleus where it phosphorylates nuclear targets. Alternatively spliced transcript variants encoding different protein isoforms have been described.

Recommended Dilutions

WB 1:1000 - 1:6000

IP
0.5μg-4μg antibody for 200μg-400μg extracts of whole cells

IHC-P 1:200 - 1:2000

ELISA
Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
5595

Swiss-Prot
P27361

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
ERK1; ERT2; ERK-1; PRKM3; P44ERK1; P44MAPK; HS44KDAP; HUMKER1A; p44-ERK1; p44-MAPK; K1

Contact

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Product Information

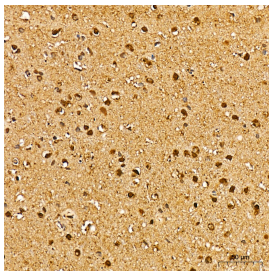
Source
Rabbit

Isotype
IgG

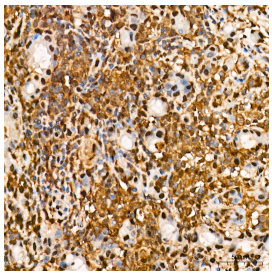
Purity
Affinity purification

Storage
Store at -20℃

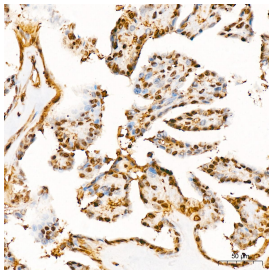
Validation Data



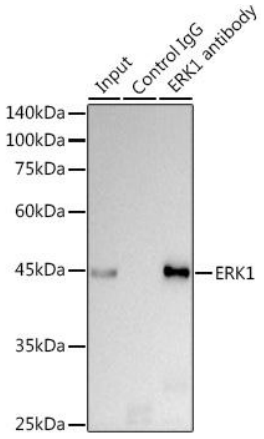
Immunohistochemistry analysis of paraffin-embedded Human brain tissue using [KD Validated] ERK1 Rabbit mAb (A19561) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



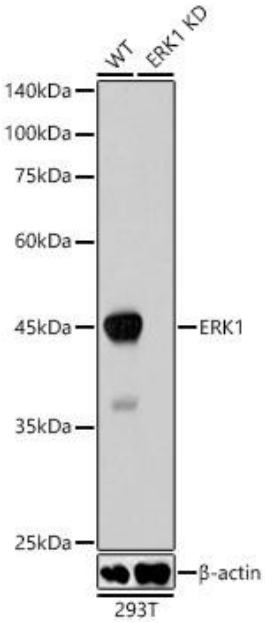
Immunohistochemistry analysis of paraffin-embedded Human breast tissue using [KD Validated] ERK1 Rabbit mAb (A19561) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



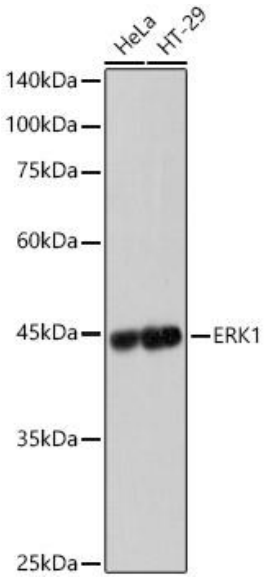
Immunohistochemistry analysis of paraffin-embedded Human thyroid cancer tissue using [KD Validated] ERK1 Rabbit mAb (A19561) at a dilution of 1:200 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunoprecipitation analysis of 300 µg extracts of HeLa cells using 3 µg [KD Validated] ERK1 Rabbit mAb (A19561). Western blot was performed from the immunoprecipitate using ERK1 antibody (A19561) at a dilution of 1:1000.



Western blot analysis of lysates from wild type(WT) and ERK1 knockdown (KD) 293T cells, using [KD Validated] ERK1 Rabbit mAb (A19561) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.



Western blot analysis of various lysates, using [KD Validated] ERK1 Rabbit mAb (A19561) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1: 10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.