

## ERK1 Monoclonal Antibody

CAB19561

### Description

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This ERK1 Monoclonal Antibody is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

### Product Information

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**SKU:** CAB19561

**Contents:** 20 µL, 100 µL

Bradford Reagent: 1 vial (2ml)

**Category:** Monoclonal Antibody

**Synonyms:** ERK1, ERT2, ERK-1, PRKM3, P44ERK1, P44MAPK, HS44KDAP, HUMKER1A, p44-ERK1, p44-MAPK, K1

**Clone:** ARC2591

**Applications:** WB IHC-P IF/ICC IP ELISA IF-P

**Conjugation:** Unconjugated

**Reactivity:** Human, Mouse

### Antibody Data

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**Gene ID:** 5595

**Uniprot:** AB\_2862668

**Host Species:** Rabbit

**Purification:** Affinity purification

**Observed MW:** 44kDa

**Calculated MW:** 43kDa

## Preparation & Storage

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**Storage:** Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Store Bradford Reagent at Room Temperature for 1 Year.

**Positive Sample:** 293T, HeLa, HT-29

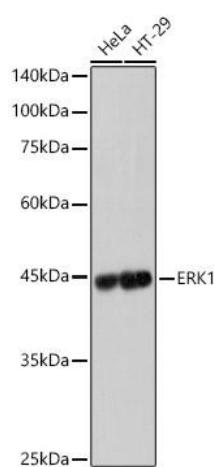
**Recommended Dilutions:**

<b>WB</b>	1:1000 - 1:6000
<b>IP</b>	0.5µg-4µg antibody for 200µg-400µg extracts of whole cells
<b>IF/ICC</b>	1:100 - 1:800
<b>IF-P</b>	1:100 - 1:800
<b>IHC-P</b>	1:200 - 1:2000
<b>ELISA</b>	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

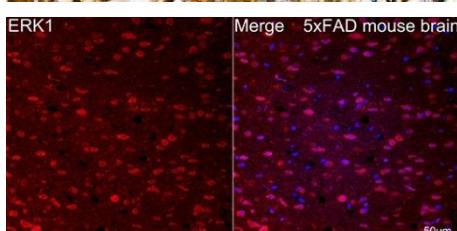
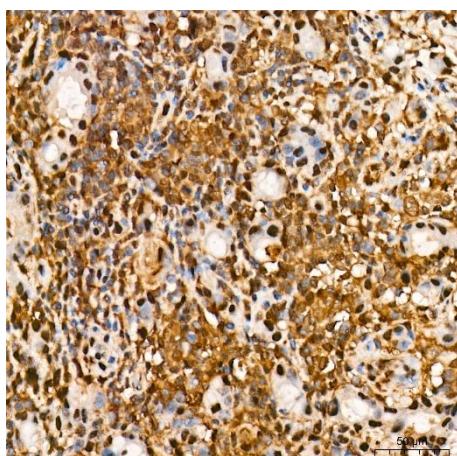
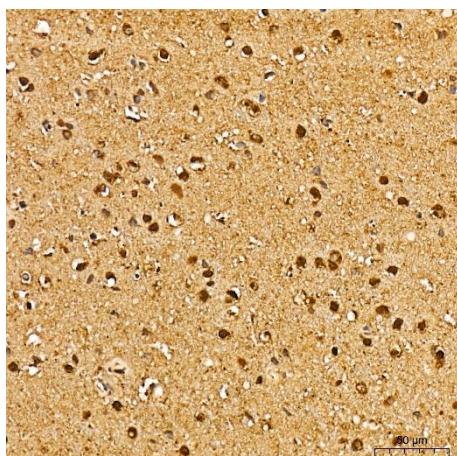
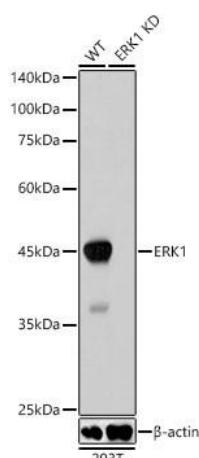
**Protein Quantification (Optional):** To quantify total protein levels, use the Bradford Reagent included in this kit. Visit <https://www.assaygenie.com/bradford-protein-assay-protocol/> to view the full protocol

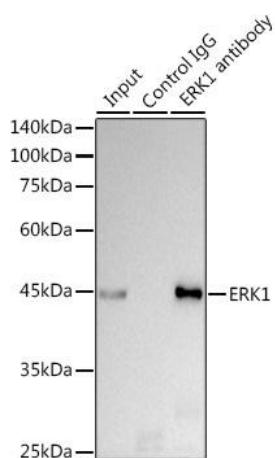
## Validation Data

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Western blot analysis of various lysates, using [KD Validated] Rabbit mAb (CAB19561) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (AbGn00020). Exposure time: 1s.





Immunoprecipitation analysis of 300 µg extracts of HeLa cells using 3 µg [KD Validated] Rabbit mAb (CAB19561). Western blot was performed from the immunoprecipitate using antibody (CAB19561) at a dilution of 1:1000.