Datasheet for ABIN732458
anti-ERK1/2 antibody (pThr183, pTyr185)
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Overview

| Quantity: | $100 \mu \mathrm{~L}$ |
| :--- | :--- |
| Target: | ERK1/2 (MAPK1/3) |
| Binding Specificity: | pThr183, pTyr185 |
| Reactivity: | Human, Mouse, Rat, Chicken |
| Host: | Polyclonal |
| Clonality: | This ERK1/2 antibody is un-conjugated |
| Conjugate: | Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), |
| Application: | Sections) (IF (p)), Flow Cytometry (FACS), Immunohistochemistry (Frozen Sections) (IHC (fro)) |

## Product Details

| Immunogen: | KLH conjugated synthetic phosphopeptide derived from human ERK2 around the |
| :--- | :--- |
| phosphorylation site of Thr183/Tyr185 |  |
| Isotype: | IgG |
| Cross-Reactivity: | Chicken, Human, Mouse, Rat |
| Predicted Reactivity: | Dog,Cow,Pig,Horse,Rabbit,Guinea Pig |
| Purification: |  |
| Target Details | ERK1/2 (MAPK1/3) |


| Alternative Name: | ERK1+ERK2 (MAPK1/3 Products) |
| :---: | :---: |
| Background: | Synonyms: ERK, p38, p4, p41, ERK2, ERT1, ERK-2, MAPK2, PRKM1, PRKM2, P42MAPK, p41mapk, p42-MAPK, ERK1, ERT2, ERK-1, PRKM3, P44ERK1, P44MAPK, HS44KDAP, HUMKER1A, p44-ERK1, p44-MAPK, Mitogen-activated protein kinase 1, MAP kinase 1, MAPK 1, Extracellular signal-regulated kinase 2, MAP kinase isoform p42, Mitogen-activated protein kinase 2, MAP kinase 2, MAPK 2, MAPK1 <br> 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 as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. The activation of this kinase requires its phosphorylation by upstream kinases. Upon activation, this kinase translocates to the nucleus of the stimulated cells, where it phosphorylates nuclear targets. Two alternatively spliced transcript variants encoding the same protein, but differing in the UTRs, have been reported for this gene. |
| Gene ID: | 55945595 |
| UniProt: | P28482 |
| Application Details |  |
| Application Notes: | WB 1:300-5000 <br> ELISA 1:500-1000 <br> FCM 1:20-100 <br> IHC-P 1:200-400 <br> IHC-F 1:100-500 <br> IF(IHC-P) 1:50-200 <br> IF(IHC-F) 1:50-200 <br> IF(ICC) 1:50-200 |
| Restrictions: <br> Handling | For Research Use only |
| Format: | Liquid |
| Concentration: | $1 \mu \mathrm{~g} / \mu \mathrm{L}$ |
| Buffer: | 0.01 M TBS( pH 7.4 ) with $1 \%$ BSA, $0.02 \%$ Proclin300 and $50 \%$ Glycerol. |

Handling

| Preservative: | ProClin |
| :--- | :--- |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be <br> handled by trained staff only. |
| Storage: | $4^{\circ} \mathrm{C},-20^{\circ} \mathrm{C}$ |
| Storage Comment: | Shipped at $4^{\circ} \mathrm{C}$. Store at $-20^{\circ} \mathrm{C}$ for one year. Avoid repeated freeze/thaw cycles. |
| Expiry Date: | 12 months |

Publications

Product cited in:
Hirata, Katayama, Tsuji, Imura, Natsume, Sugahara, Kunieda, Nakamura, Otsuki: "Homeobox family Hoxc localization during murine palate formation." in: Congenital anomalies, Vol. 56, Issue 4, pp. 172-9, (2016) (PubMed).

Iriyama, Hatta, Takei: "Direct effect of dasatinib on signal transduction pathways associated with a rapid mobilization of cytotoxic lymphocytes." in: Cancer medicine, Vol. 5, Issue 11, pp. 3223-3234, (2016) (PubMed).

Wang, Fu, Jiang, Yu, Wang, Han, Liu, Wang: "Bone marrow mononuclear cell transplantation promotes therapeutic angiogenesis via upregulation of the VEGF-VEGFR2 signaling pathway in a rat model of vascular dementia." in: Behavioural brain research, Vol. 265, pp. 171-80, (2014) ( PubMed).

Images


## SDS-PAGE

Image 1. Lane 1: mouse heart lysates Lane 2: mouse S/P20 cell lysates probed with Anti phospho-ERK1(Thr202/Tyr204) +ERK2(Thr183/Tyr185) Polyclonal Antibody, Unconjugated (ABIN732458) at 1:200 in $4^{\circ} \mathrm{C}$. Followed by conjugation to secondary antibody at 1:3000 90min in $37^{\circ} \mathrm{C}$. Predicted band 42kD. Observed band size:42kD

Immunohistochemistry
Image 2. Formalin-fixed and paraffin embedded human

| lung carcinoma labeled with Anti-phospho- |
| :--- |
| ERK1(Thr202/Tyr204) +ERK2(Thr183/Tyr185) Polyclonal |
| Antibody, Unconjugated (ABIN732458) at 1:200 followed by |
| conjugation to the secondary antibody and DAB staining |

