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Datasheet for ABIN7159976
anti-ERK2 antibody (AA 133-316)

3 Images

Overview

| | |
|----------------------|------------------------------------------------------------|
| Quantity: | 100 µg |
| Target: | ERK2 (MAPK1) |
| Binding Specificity: | AA 133-316 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This ERK2 antibody is un-conjugated |
| Application: | ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF) |

Product Details

| | |
|-------------------|---------------------------------------------------------------------------|
| Immunogen: | Recombinant Human Mitogen-activated protein kinase 10 protein (133-316AA) |
| Isotype: | IgG |
| Cross-Reactivity: | Human |
| Purification: | >95%, Protein G purified |

Target Details

| | |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target: | ERK2 (MAPK1) |
| Alternative Name: | MAPK1 (MAPK1 Products) |
| Background: | Background: Serine/threonine-protein kinase involved in various processes such as neuronal proliferation, differentiation, migration and programmed cell death. Extracellular stimuli such as |

Target Details

proinflammatory cytokines or physical stress stimulate the stress-activated protein kinase/c-Jun N-terminal kinase (SAP/JNK) signaling pathway. In this cascade, two dual specificity kinases MAP2K4/MKK4 and MAP2K7/MKK7 phosphorylate and activate MAPK10/JNK3. In turn, MAPK10/JNK3 phosphorylates a number of transcription factors, primarily components of AP-1 such as JUN and ATF2 and thus regulates AP-1 transcriptional activity. Plays regulatory roles in the signaling pathways during neuronal apoptosis. Phosphorylates the neuronal microtubule regulator STMN2. Acts in the regulation of the beta-amyloid precursor protein/APP signaling during neuronal differentiation by phosphorylating APP. Participates also in neurite growth in spiral ganglion neurons. Phosphorylates the CLOCK-ARNTL/BMAL1 heterodimer and plays a role in the photic regulation of the circadian clock (PubMed:22441692).

Aliases: c Jun kinase 3 antibody, c-Jun N-terminal kinase 3 antibody, cJun N terminal kinase 3 antibody, FLJ12099 antibody, FLJ33785 antibody, JNK3 alpha protein kinase antibody, JNK3 antibody, JNK3A antibody, MAP kinase 10 antibody, MAP kinase antibody, MAP kinase p49 3F12 antibody, MAPK 10 antibody, Mapk10 antibody, MGC50974 antibody, mitogen activated protein kinase 10 antibody, Mitogen-activated protein kinase 10 antibody, MK10_HUMAN antibody, p493F12 antibody, p54bSAPK antibody, PRKM10 antibody, protein kinase mitogen activated 10 antibody, SAPK1b antibody, Stress activated protein kinase 1b antibody, stress activated protein kinase beta antibody, Stress activated protein kinase JNK3 antibody, Stress-activated protein kinase JNK3 antibody

UniProt: [P53779](#)

Pathways: [MAPK Signaling](#), [RTK Signaling](#), [Apoptosis](#), [Interferon-gamma Pathway](#), [Fc-epsilon Receptor Signaling Pathway](#), [Response to Growth Hormone Stimulus](#), [Activation of Innate immune Response](#), [Cellular Response to Molecule of Bacterial Origin](#), [Hepatitis C](#), [Protein targeting to Nucleus](#), [Toll-Like Receptors Cascades](#), [Monocarboxylic Acid Catabolic Process](#), [Autophagy](#), [G-protein mediated Events](#), [Signaling Events mediated by VEGFR1 and VEGFR2](#), [Signaling of Hepatocyte Growth Factor Receptor](#), [VEGFR1 Specific Signals](#), [BCR Signaling](#), [S100 Proteins](#)

Application Details

Application Notes: Recommended dilution: IHC:1:20-1:200, IF:1:50-1:200,

Restrictions: For Research Use only

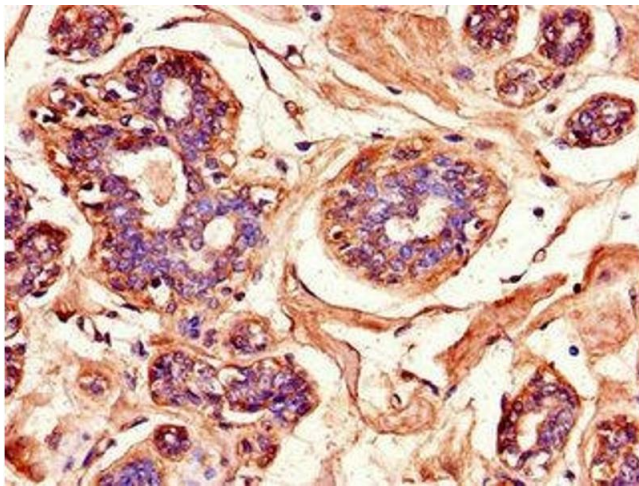
Handling

Format: Liquid

Handling

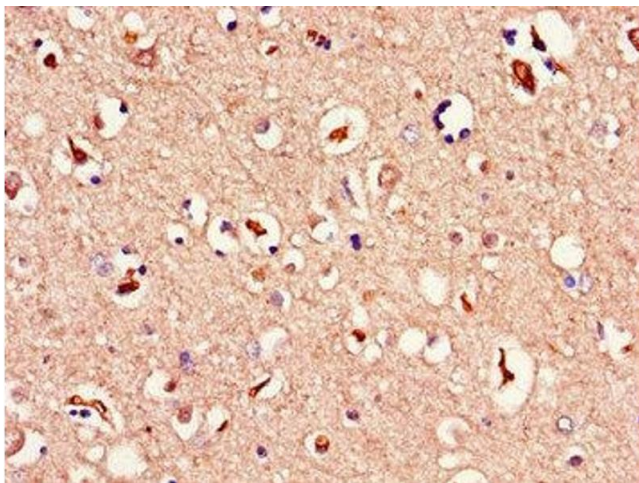
| | |
|--------------------|-------------------------------------------------------------------------------------------------------------------|
| Buffer: | Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4 |
| Preservative: | ProClin |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | -20 °C,-80 °C |
| Storage Comment: | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze. |

Images



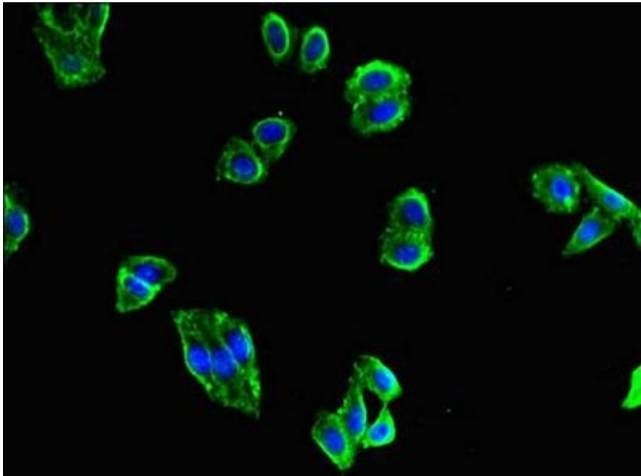
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human testis tissue using ABIN7159976 at dilution of 1:100



Immunohistochemistry

Image 2. Immunohistochemistry of paraffin-embedded human brain tissue using ABIN7159976 at dilution of 1:100



Immunofluorescence

Image 3. Immunofluorescent analysis of HepG2 cells using ABIN7159976 at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)