



[Go to Product page](#)

Datasheet for ABIN3031833  
**anti-MAPK7 antibody (AA 527-557)**

3 Images

Overview

Quantity:	0.4 mL
Target:	MAPK7
Binding Specificity:	AA 527-557
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MAPK7 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

Product Details

Immunogen:	A portion of amino acids 527-557 from the human protein was used as the immunogen for this ERK4 antibody.
Isotype:	Ig Fraction
Purification:	Purified

Target Details

Target:	MAPK7
Alternative Name:	ERK4 ( <a href="#">MAPK7 Products</a> )
Background:	Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the $\gamma$ phosphate of ATP, onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells,

## Target Details

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regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. With more than 500 gene products, the protein kinase family is one of the largest families of proteins in eukaryotes. The family has been classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. The CMGC group consists of 60 kinases including the cyclin-dependent kinase (CDK) and close relatives family, the MAP kinase (ERK) family, the glycogen synthase kinase 3 (GSK3) family, and the Cdc2-like kinase (CLK) family.

UniProt: [P31152](#)

Pathways: [MAPK Signaling](#), [Neurotrophin Signaling Pathway](#), [Activation of Innate immune Response](#), [cAMP Metabolic Process](#), [Toll-Like Receptors Cascades](#), [Negative Regulation of intrinsic apoptotic Signaling](#)

## Application Details

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Application Notes: Titration of the ERK4 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:1000,IHC (Paraffin): 1:10-1:50

Restrictions: For Research Use only

## Handling

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Format: Liquid

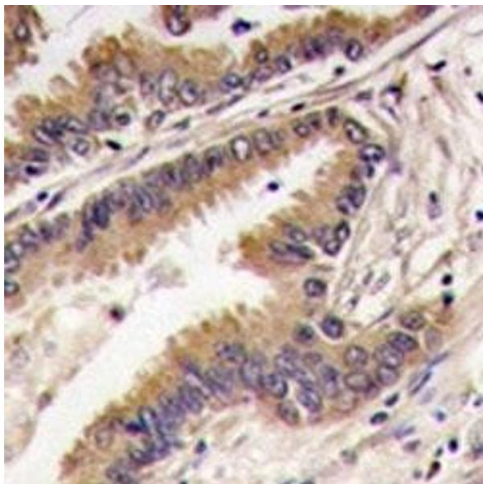
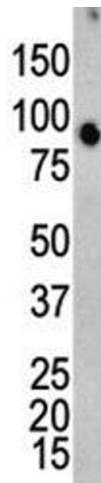
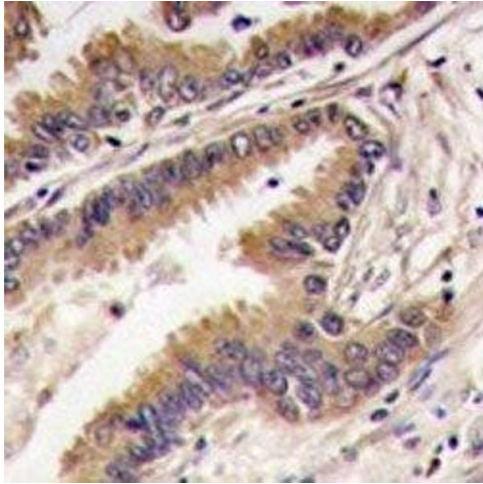
Buffer: In 1X PBS, pH 7.4, with 0.09 % sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Aliquot the ERK4 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



### Immunohistochemistry

**Image 1.** IHC analysis of FFPE human lung carcinoma tissue stained with ERK4 antibody

### Western Blotting

**Image 2.** Western blot analysis of ERK4 antibody and mouse brain tissue lysate.

### Immunohistochemistry

**Image 3.** IHC analysis of FFPE human lung carcinoma tissue stained with ERK4 antibody