

Datasheet for ABIN359634

anti-MAPK7 antibody (C-Term)[Go to Product page](#)**2** Images

Overview

Quantity:	0.4 mL
Target:	MAPK7
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MAPK7 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the C-terminal region of human ERK5.
Isotype:	Ig Fraction
Specificity:	This antibody reacts to ERK5.
Purification:	Protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS

Target Details

Target:	MAPK7
Alternative Name:	MAPK7 / ERK5 (MAPK7 Products)

Target Details

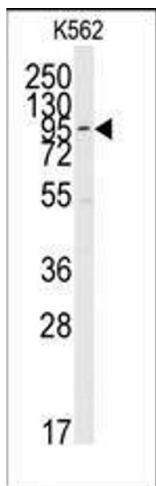
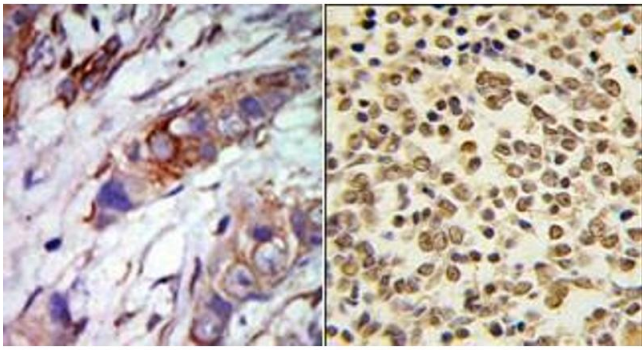
Background:	MEK5 and ERK5, a member of the MAP kinase subfamily of the Ser/Thr protein kinases, interact specifically with one another and not with MEK1/ERK1 or MEK2/ERK2 pathways. ERK5 is activated by tyrosine and threonine phosphorylation It is expressed in many adult tissues, abundantly in heart, placenta, lung, kidney and skeletal muscle, but is not detectable in liver. The second proline-rich region may interact with actin targeting the kinase to a specific location in the cell. ERK5 is autophosphorylated on threonine and tyrosine residues when the C-terminal part of the kinase, which could have a regulatory role, is absent.Synonyms: Big MAP kinase 1, ERK4, Extracellular signal-regulated kinase 5, MAPK7, Mitogen-activated protein kinase 7
Gene ID:	5598, 9606
UniProt:	Q13164
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

Application Notes:	ELISA: 1/1,000. Western blotting: 1/100 - 1/500. Immunohistochemistry: 1/50 - 1/100. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.25 mg/mL
Buffer:	PBS with 0.09 % (W/V) 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.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	Store the antibody undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. (LEFT)Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. (RIGHT)Formalin-fixed and paraffin-embedded human kidney carcinoma tissue reacted with ERK5 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining.

Western Blotting

Image 2. Western blot analysis of anti-ERK5 C-term Pab in K562 cell line lysates (35ug/lane). ERK5 (arrow) was detected using the purified Pab.