Datasheet for ABIN350737

anti-ERK1/2 antibody (pThr202, pTyr204)

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Overview

Quantity:	500 µg
Target:	ERK1/2 (MAPK1/3)
Binding Specificity:	pThr202, pTyr204
Reactivity:	Human
Host:	Sheep
Clonality:	Polyclonal
Conjugate:	This ERK1/2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	Sheep antibody to phospho T202 & Y204 Erk1 Erk2
Immunogen:	A synthetic peptide from the phospho T202 & Y204 of human Erk1 Erk2 conjugated to blue carrier protein was used as the antigen. The antigen is homologous in many species including rat mouse zebra fish xenopus and chicken.
Isotype:	IgG
Specificity:	Specific for Erk1 and Erk2.
Cross-Reactivity:	Human, Mouse, Rat
Cross-Reactivity (Details):	Other species not yet tested.
Purification:	IgG

Target Details

Target:	ERK1/2 (MAPK1/3)
Alternative Name:	Erk1 Erk2 (MAPK1/3 Products)
Background:	FUNCTION: Involved in both the initiation and regulation of meiosis mitosis and postmitotic functions in differentiated cells by phosphorylating a number of transcription factors such as ELK-1. Phosphorylates EIF4EBP1, required for initiation of translation. Phosphorylates microtubule-associated protein 2 (MAP2). Phosphorylates SPZ1. Phosphorylates heat shock factor protein 4 (HSF4). CATALYTIC ACTIVITY: ATP + a protein = ADP + a phosphoprotein. COFACTOR: Magnesium. ENZYME REGULATION: Activated by tyrosine phosphorylation in response to insulin and NGF. SUBUNIT: Interacts with MORG1. Binds to HIV-1 Nef. This interaction inhibits its kinase activity. Interacts with HSF4 and NISCH.
UniProt:	P27361

Application Details

Application Notes:	IHC WB. A concentration of 10-50 µg,ml is recommended. The optimal concentration should be determined by the end user. This antibody may also recognise the unphosphorylated form. Not yet tested in other applications.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitute in 500 µL of sterile water. Centrifuge to remove any insoluble material.
Handling Advice:	Avoid freeze and thaw cycles.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain the lyophilised/reconstituted antibodies frozen at -20C for long term storage and refrigerated at 2-8C for a shorter term. When reconstituting glycerol (1:1) may be added for an additional stability. Avoid freeze and thaw cycles.
Expiry Date:	12 months