abcam

Product datasheet

Anti-p38 antibody [6A1] ab28443

1 Image

Overview

Product name	Anti-p38 antibody [6A1]
Description	Mouse monoclonal [6A1] to p38
Tested applications	**Suitable for:** ELISA, WB
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic Glutaldehydepeptide (KLH coupled) corresponding to C terminal residues of human p38 MAP kinase.
Positive control	293T cell lysate and HepG2 cell lysate.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.03% Sodium Azide Constituents: 50% Glycerol, 0.01% BSA, HEPES, 0.15M Sodium chloride
Purity	Protein A purified
Clonality	Monoclonal
Clone number	6A1
Isotype	IgG1

Applications

Our Abpromise guarantee covers the use of **ab28443** in the following tested applications.

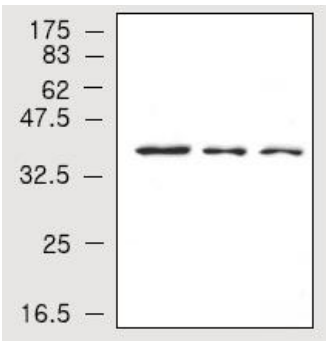
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA		Use at an assay dependent dilution.
WB		1/1000. Predicted molecular weight: 41 kDa.

Target

Function	Responds to activation by environmental stress, pro-inflammatory cytokines and lipopolysaccharide (LPS) by phosphorylating a number of transcription factors, such as ELK1 and ATF2 and several downstream kinases, such as MAPKAPK2 and MAPKAPK5. Plays a critical role in the production of some cytokines, for example IL-6. May play a role in stabilization of EPO mRNA during hypoxic stress. Isoform Mxi2 activation is stimulated by mitogens and oxidative stress and only poorly phosphorylates ELK1 and ATF2. Isoform Exip may play a role in the early onset of apoptosis.
Tissue specificity	Brain, heart, placenta, pancreas and skeletal muscle. Expressed to a lesser extent in lung, liver and kidney.
Sequence similarities	Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. MAP kinase subfamily. Contains 1 protein kinase domain.
Domain	The TXY motif contains the threonine and tyrosine residues whose phosphorylation activates the MAP kinases.
Post-translational modifications	Dually phosphorylated on Thr-180 and Tyr-182, which activates the enzyme. Phosphorylated upon DNA damage, probably by ATM or ATR.
Cellular localization	Cytoplasm. Nucleus.

Images



Western blot - Anti-p38 antibody [6A1] (ab28443)

All lanes : Anti-p38 antibody [6A1] (ab28443) at 1/1000 dilution

Lane 1 : 293T cell lysate
Lane 2 : U87mg cell lysate
Lane 3 : HepG2 cell lysate

Predicted band size : 41 kDa
Observed band size : 39 kDa

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise,

please visit http://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors