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Datasheet for 600-101-HB4S

P38 Antibody

Overview

Description:	Anti-P38 (GOAT) Antibody - 600-101-HB4S
Item No.:	600-101-HB4S
Size:	25 µL
Applications:	ELISA, IHC, WB
Reactivity:	H. sapiens (Human), Mus musculus (Mouse)
Host Species:	Goat

Product Details

Background:	p38, also called SAPK2A, belongs to the MAP kinase family. The MAP kinases are critical signaling proteins for many biochemical signals. They participate in transcription regulation, cellular differentiation and proliferation. Environmental signals and cytokines catalyze the kinases into bonding their substrates such as MAX and ATF2, for example, and p53 a tumor suppressing gene. p38 may be associated with diseases such as chlamydia and patellar tendinitis. Anti-p38 antibody is useful for researchers interested in signal pathways, cellular development or cancer research.
Synonyms:	Goat Anti-p38 Antibody, Goat Anti-MAPK14 Antibody, CSBP, CSBP1, CSBP2, CSPB1, MXI2, SAPK2A, MAPK14
Host Species:	Goat
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	MAPK14
Reactivity:	H. sapiens (Human), Mus musculus (Mouse)
Immunogen Type:	Peptide
Immunogen:	Anti-p38 antibody was prepared from whole goat serum produced by repeated immunizations with a synthetic peptide corresponding to an internal portion of human p38 conjugated to Keyhole Limpet Hemocyanin (KLH).

Purity/Specificity:	This affinity purified antibody is directed against human p38. This product was affinity purified from monospecific antiserum by immunoaffinity purification. Blast analysis of this highly conserved protein shows 100% identity with mouse, chimpanzee, dog, and 92.3% with rat.
Relevant Links:	• UniProtKB - Q16539 • NCBI - NP_001306.1 • GeneID - 1432

Application Details

Tested Applications:	ELISA, IHC, WB
Application Note:	Anti-p38 Antibody has been tested in Western Blot, ELISA and Immunohistochemistry. Expect a band at ~42 kDa in western blot using appropriate lysates. Positive control whole cell lysates used NIH3T3 and PC-12 @ 1µg/mL for WB; breast cancer tissue for IHC. This antibody has been additionally validated using a p38 knock-out lysate.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	5 ug/ml
IF:	15 ug/ml
IHC:	User Optimized
WB:	1:1000

Formulation

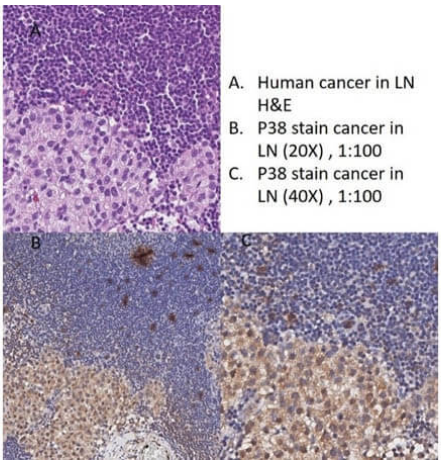
Physical State:	Liquid (sterile filtered)
Concentration:	0.95 mg/ml by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

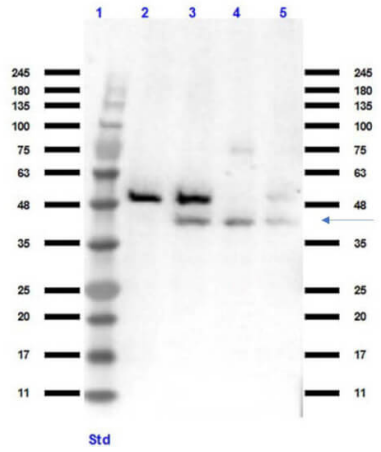
Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry
Immunohistochemistry of Goat Anti-p38 Antibody. Tissue: Human Breast Cancer. Antigen Retrieval: HIER using Citrate Buffer for 20 min. Primary Antibody: Goat Anti-p38 at 1:100 for 30 min at RT. Secondary Antibody: Donkey Anti-Goat HRP Conjugated Antibody at 4µl/mL. Staining: DAB.



Western Blot
Western Blot of Goat Anti-p38 Antibody. Lane 1: Opal Pre-Stained Molecular Weight Marker (p/n MB-210-0500). Lane 2: HEK293T p38 KO cell lysate. Lane 3: HEK293T cell lysate (p/n W09-001-GX5). Lane 4: NIH3T3 cell lysate (p/n W10-000-358). Lane 5: PC-12 cell lysate (W12-001-GL9). Load 10-35µg/lane. Primary antibody: Goat Anti-p38 at 1:1000 overnight at 4°C. Secondary antibody: Donkey Anti-Goat HRP conjugated Antibody (p/n 605-703-125) at 1:40,000 at RT for 2 hrs. Blocking Buffer: BlockOut (p/n MB-073). Expect: ~42kDa seen at arrow. Other isoforms between 29-42kDa expected. Non Specific Band seen at ~48kDa in lane 1 and 2.

Disclaimer

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