

Datasheet for 600-101-HB4**P38 Antibody****Overview**

Description:	Anti-P38 (GOAT) Antibody - 600-101-HB4
Item No.:	600-101-HB4
Size:	100 µg
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

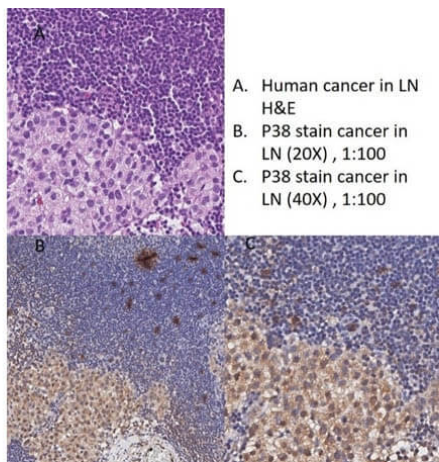
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

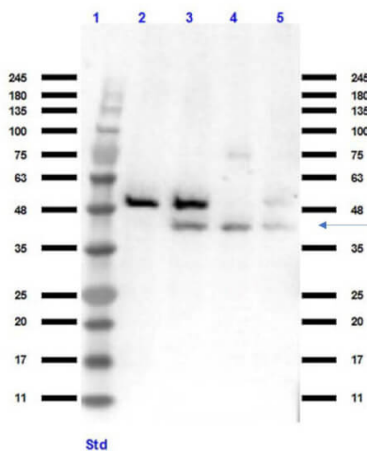
Expiration: Expiration date is one (1) year from date of receipt.

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

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.