

## Anti-MAPK8/9 Antibody Picoband®

Catalog Number: PA1407

### About MAPK8

Mitogen-activated protein kinase 8 is an enzyme that in humans is encoded by the MAPK8 gene. The protein encoded by this gene is a member of the MAP kinase family. The International Radiation Hybrid Mapping Consortium mapped the MAPK8 gene to chromosome 10. The single long open reading frame encodes a putative protein kinase with a predicted mass of 44.2 kD. This kinase play a key role in T cell proliferation, apoptosis and differentiation. The protein encoded by MAPK9 gene is also a member of the MAP kinase family. MAP kinases act as an integration point for multiple biochemical signals, and are involved in a wide variety of cellular processes such as proliferation, differentiation, transcription regulation and development. This kinase targets specific transcription factors, and thus mediates immediate-early gene expression in response to various cell stimuli. It is most closely related to MAPK8, both of which are involved in UV radiation induced apoptosis, thought to be related to the cytochrome c-mediated cell death pathway. This gene and MAPK8 are also known as c-Jun N-terminal kinases. This kinase blocks the ubiquitination of tumor suppressor p53, and thus it increases the stability of p53 in nonstressed cells. Studies of this gene's mouse counterpart suggest a key role in T-cell differentiation. Several alternatively spliced transcript variants encoding distinct isoforms have been reported.

### Overview

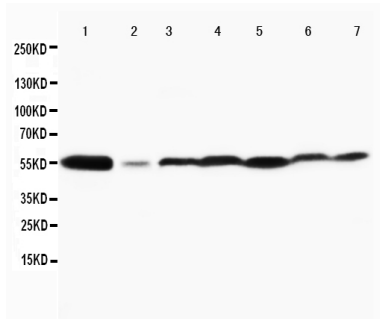
Product Name	Anti-MAPK8/9 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-MAPK8/9 Antibody catalog # PA1407. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P45983, P45984

### Technical Details

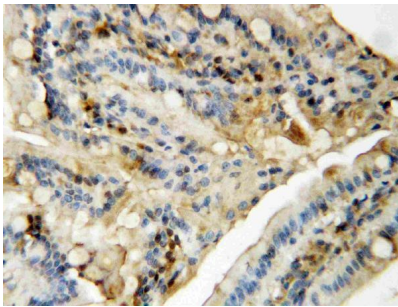
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Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human MAPK8/9, identical to the related mouse and rat sequences.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Rat, Mouse - Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat

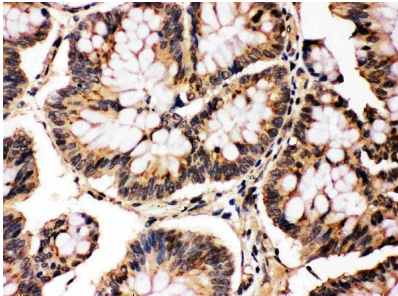
## Anti-MAPK8/9 Antibody Picoband® (PA1407) Images



Anti-MAPK8/9 antibody, PA1407, Western blotting  
Lane 1: Rat Brain Tissue Lysate  
Lane 2: Rat Thymus Tissue Lysate  
Lane 3: MCF-7 Cell Lysate  
Lane 4: HELA Cell Lysate  
Lane 5: JURKAT Cell Lysate  
Lane 6: MM231 Cell Lysate  
Lane 7: CEM Cell Lysate



Anti-MAPK8/9 antibody, PA1407, IHC(P)  
IHC(P): Rat Intestine Tissue



Anti-MAPK8/9 antibody, PA1407, IHC(P)  
IHC(P): Human Intestinal Cancer Tissue

## 6 Publications Citing This Product

1. PubMed ID: 21625440, Ding Y, Zou J, Li Z, Tian J, Abdelalim S, Du F, She R, Wang D, Tan C, Wang H, Chen W, Lv D, Chang L. Plos One. 2011;6(5):E20008. Doi: 10.1371/Journal.Pone.0020008. Epub 2011 May 23. Study Of Histopathological And Molecular Changes Of Rat Kidney Un...
2. PubMed ID: 29072695, Glucocorticoid mediates prenatal caffeine exposure-induced endochondral ossification retardation and its molecular mechanism in female fetal rats
3. PubMed ID: 29399151, Pseudolaric acid B induced autophagy, but not apoptosis, in MRC5 human fibroblast cells

Visit [bosterbio.com/anti-mapk8-9-antibody-pa1407-boster.html](http://bosterbio.com/anti-mapk8-9-antibody-pa1407-boster.html) to see all 6 publications.

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