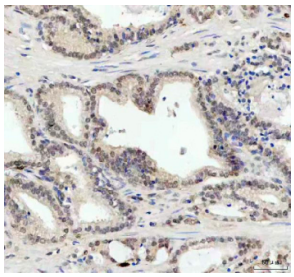
JNK1 Antibody / c-Jun N-terminal kinase / MAPK8 [clone 29M34] (RQ8844)

Catalog No.	Formulation	Size
RQ8844	Antibody in PBS with 0.02% sodium azide, 50% glycerol and 0.4-0.5mg/ml BSA	100 ul

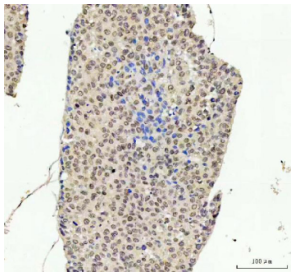
Recombinant RABBIT MONOCLONAL

Bulk quote request

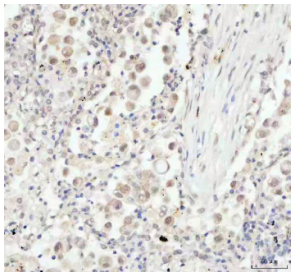
Availability	1-2 days
Species Reactivity	Human, Mouse, Rat
Format	Purified
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	29M34
Purity	Affinity chromatography
UniProt	P45983
Localization	Nuclear, cytoplasmic
Applications	Western Blot : 1:500-1:2000 Immunohistochemistry (FFPE) : 1:50-1:200
Limitations	This JNK1 antibody is available for research use only.



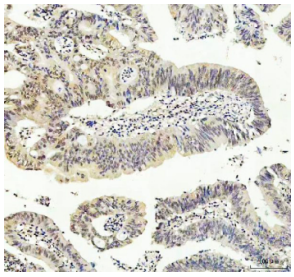
IHC staining of FFPE human prostate cancer tissue with JNK1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



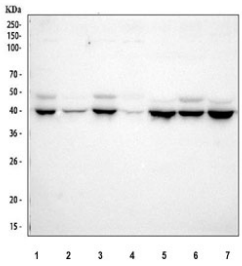
IHC staining of FFPE human liver cancer tissue with JNK1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human lung cancer tissue with JNK1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human colorectal adenocarcinoma tissue with JNK1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human 293T, 2) human HeLa, 3) human Jurkat, 4) human A431, 5) rat brain, 6) rat C6 and 7) mouse brain tissue lysate with JNK1 antibody. Predicted molecular weight: 44-48 kDa (multiple isoforms).

Description

JNK1, a member of the mitogen-activated protein kinase (MAPK) family, is known for its role in regulating cell growth, differentiation, survival, and apoptosis. Its activation is triggered by a wide range of stimuli, including stressors such as UV radiation, inflammatory cytokines, and oxidative stress. Once activated, JNK1 sets off a cascade of signaling events within the cell, ultimately influencing gene expression and cellular responses. One of the most intriguing aspects of JNK1 is its involvement in inflammation and immune responses. Studies have shown that JNK1 plays a critical role in regulating the production of pro-inflammatory cytokines and chemokines, as well as in mediating the activation of immune cells such as T cells and macrophages. Dysregulation of JNK1 signaling has been implicated in various autoimmune diseases, such as rheumatoid arthritis and inflammatory bowel disease. Furthermore, JNK1 has been linked to cancer development and progression. Its aberrant activation in cancer cells has been associated with increased cell proliferation, migration, and invasion, as well as resistance to chemotherapy.

Application Notes

Optimal dilution of the JNK1 antibody should be determined by the researcher.

Immunogen

A synthetic peptide specific to human c-Jun N-terminal kinase 1 protein was used as the immunogen for the JNK1 antibody.

Storage

Store the JNK1 antibody at -20oC.