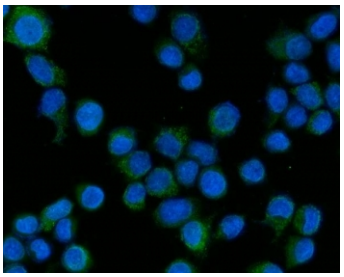
TAK1 Antibody / MAP3K7 (R32443)

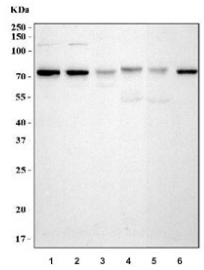
Catalog No.	Formulation	Size
R32443	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

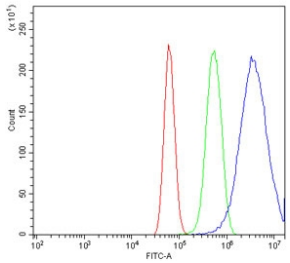
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	O43318
Applications	Western Blot : 0.5-1ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/ml
Limitations	This TAK1 antibody is available for research use only.



Immunofluorescent staining of FFPE human SiHa cells with TAK1 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of 1) human MCF7, 2) human A431, 3) human A375, 4) rat heart, 5) mouse heart and 6) mouse NIH 3T3 cell lysate with TAK1 antibody. Predicted molecular weight: 64-69 kDa, routinely observed at 78-82 kDa.



Flow cytometry testing of human U-87 MG cells with TAK1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= TAK1 antibody.

Description

Mitogen-activated protein kinase kinase kinase 7, also known as TAK1, is an enzyme that in humans is encoded by the MAP3K7 gene. The protein encoded by this gene is a member of the serine/threonine protein kinase family. This kinase mediates the signaling transduction induced by TGF beta and morphogenetic protein (BMP), and controls a variety of cell functions including transcription regulation and apoptosis. In response to IL-1, this protein forms a kinase complex including TRAF6, MAP3K7P1/TAB1 and MAP3K7P2/TAB2; this complex is required for the activation of nuclear factor kappa B. This kinase can also activate MAPK8/JNK, MAP2K4/MKK4, and thus plays a role in the cell response to environmental stresses. Four alternatively spliced transcript variants encoding distinct isoforms have been reported.

Application Notes

Optimal dilution of the TAK1 antibody should be determined by the researcher.

Immunogen

Amino acids RLVQEHKKLLDENKSLSTYYQQCKKQLEVIRSQQQKRQ were used as the immunogen for the TAK1 antibody.

Storage

Prior to reconstitution, store at 4oC. After reconstitution, the TAK1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com