



Anti-Jun kinase 2 (JNK2), Chicken-Polyclonal Antibody

Catalog No. PY-10198
Antigen species: Human
Host species: Chicken

Quantity: 100µg
Reactivity: Human, Mouse, Rat
Form: Antigen affinity-purified antibody

Applications: Western blot

Target description

JNK2 is 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. JNK2 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 suggested a key role in T differentiation.

Antigen

This polyclonal antibody was raised by immunizing chicken with JNK2 fusion protein (231-424 amino acids).

Application

Western blotting, tissue or cell immunostaining. Recommended starting dilution for Western blot analysis is 1: 500, for tissue or cell staining is 1: 200. Optimal working dilutions must be determined by the end user.

Related Products

1. Anti-STAT1 beta, pAb (PY-10184)
2. Anti-STAT6, pAb (PY-10185)
3. Anti-serine/ threonine protein kinase (AKT), pAb (PY-10176)
4. Anti-serine/threonine protein kinase1 (AKT1), pAb (PY-10178)
5. Anti-serine/threonine protein kinase2 (AKT2), pAb (PY-10179)



E coli-derived fusion protein as test antigen.

Western blot Protocol

1. Block membrane with 5% non-fat milk in PBS-T for 1 hour at room temperature or longer at 4°C.
2. Incubate membrane with IgY antibodies at dilution of 1: 2,000 with 1% milk in PBS-T at R.T. for 1 h.
3. Rinse 3 times with PBS-T, then wash membrane with PBS-T, 5 min each, total of 3 times.
4. Incubate with 2nd antibody (goat-anti-IgY/Fc-HRP) at dilution 1: 1,000 for ECL (with 1% milk PBS-T) at R.T. for 1 h.
5. Rinse 3 times with PBS-T, then wash with PBS-T, 5 min each with shaking, total of 3 times.
6. Perform ECL detection of signal using Pierce ECL kit.

Storage

It is supplied as antigen affinity purified antibody in lyophilized powder. Redissolve the powder with 100 microliter sterile water will restore to the original concentration 1mg/ml (1×PBS). Store at 4°C for short-term application. For long-term storage, aliquot and store at -20°C.

References

1. Dong, C., Yang, D.D., Tournier, C., Whitmarsh, A.J., Xu, J., Davis, R.J., Flavell, R.A. JNK is required for effector T-cell function but not for T-cell activation. *Nature* 405: 91-94, 2000.

FOR RESEARCH USE ONLY AND NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE