

# NFAT5 Polyclonal antibody

Catalog Number: 21713-1-AP

## Basic Information

**Catalog Number:**

21713-1-AP

**Size:**

500 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG16341

**GenBank Accession Number:**

BC146765

**GeneID (NCBI):**

10725

**UNIPROT ID:**

O94916

**Full Name:**

nuclear factor of activated T-cells 5,  
tonicity-responsive

**Calculated MW:**

1531 aa, 166 kDa

**Observed MW:**

200 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:4000

IHC 1:50-1:500

IF 1:20-1:200

## Applications

**Tested Applications:**

IF/ICC, IHC, WB, ELISA

**Species Specificity:**

human, mouse, rat, monkey

**Note-IHC: suggested antigen retrieval with  
TE buffer pH 9.0; (\*) Alternatively, antigen  
retrieval may be performed with citrate  
buffer pH 6.0**

**Positive Controls:**

**WB :** HeLa cells, HepG2 cells, Jurkat cells, U2OS cells,  
COS-7 cells

**IHC :** mouse skeletal muscle tissue, human urothelial  
carcinoma tissue, human thyroid cancer tissue, mouse  
brain tissue, rat brain tissue

**IF :** HepG2 cells,

## Background Information

NFAT5 (Nuclear factor of activated T-cells 5) is the member of the Rel family of transcription factors, including NF- $\kappa$ B and NFAT1-4, which plays central roles in inducible gene expression during the immune response (PMID: 21629436). NFAT5 also acts as a novel regulator of mammalian anti-pathogen responses, regulating TLR-induced gene expression in primary macrophages induced by Toll-like receptors (PMID: 22312110). NFAT5 is involved in the transcriptional regulation of osmoprotective and inflammatory genes (PMID: 10377394).

## Storage

**Storage:**

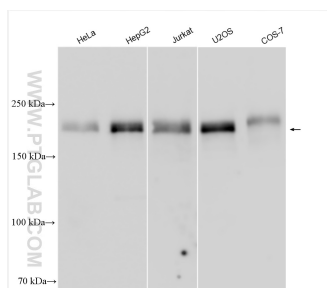
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

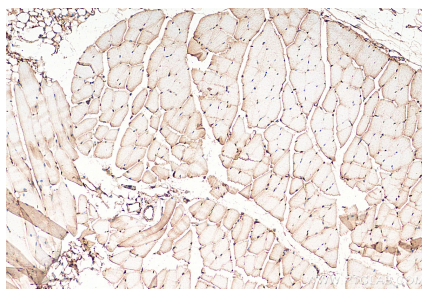
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

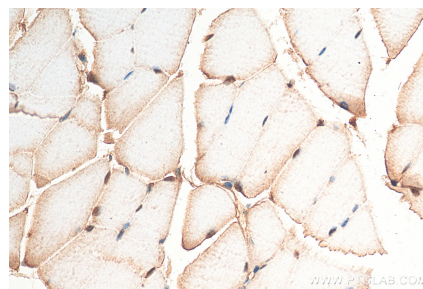
## Selected Validation Data



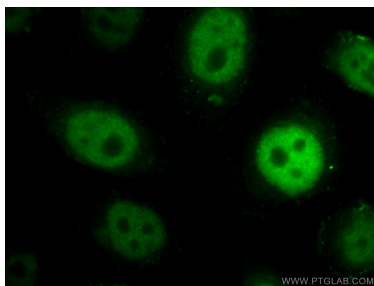
Various lysates were subjected to SDS PAGE followed by western blot with 21713-1-AP (NFAT5 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 21713-1-AP (NFAT5 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 21713-1-AP (NFAT5 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of HepG2 cells using 21713-1-AP (NFAT5 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).