

**NFAT5 Polyclonal Antibody**  
**Catalog # AP74036****Specification****NFAT5 Polyclonal Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB                     |
| Primary Accession | <a href="#">O94916</a> |
| Reactivity        | Human, Rat, Mouse      |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |

**NFAT5 Polyclonal Antibody - Additional Information****Gene ID** 10725**Other Names**

Nuclear factor of activated T-cells 5 (NF-AT5) (T-cell transcription factor NFAT5)  
(Tonicity-responsive enhancer-binding protein) (TonE-binding protein) (TonEBP)

**Dilution**

WB~~WB 1:500-2000,IHC-p 1:500-200, ELISA 1:10000-20000

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**NFAT5 Polyclonal Antibody - Protein Information****Name** NFAT5 {ECO:0000303|PubMed:10377394, ECO:0000312|HGNC:HGNC:7774}**Function**

Transcription factor involved, among others, in the transcriptional regulation of osmoprotective and inflammatory genes. Binds the DNA consensus sequence 5'-[ACT][AG]TGGAAA[CAT]A[TA][ATC][CA][ATG][GT][GAC][CG][CT]-3' (PubMed:<a href="http://www.uniprot.org/citations/10377394" target="\_blank">10377394</a>). Mediates the transcriptional response to hypertonicity (PubMed:<a href="http://www.uniprot.org/citations/10051678" target="\_blank">10051678</a>). Positively regulates the transcription of LCN2 and S100A4 genes; optimal transactivation of these genes requires the presence of DDX5/DDX17 (PubMed:<a href="http://www.uniprot.org/citations/22266867" target="\_blank">22266867</a>). Also involved in the DNA damage response by preventing formation of R-loops; R-loops are composed of a DNA:RNA hybrid and the associated non-template single- stranded DNA (PubMed:<a href="http://www.uniprot.org/citations/34049076" target="\_blank">34049076</a>).

**Cellular Location**

Nucleus. Cytoplasm {ECO:0000250|UniProtKB:Q9WV30}. Chromosome. Note=Nuclear distribution

increases under hypertonic conditions (By similarity). Recruited to sites of R-loop-associated DNA damage following poly-ADP-ribosylation by PARP1 (PubMed:34049076).  
{ECO:0000250|UniProtKB:Q9WV30, ECO:0000269|PubMed:34049076}

#### **Tissue Location**

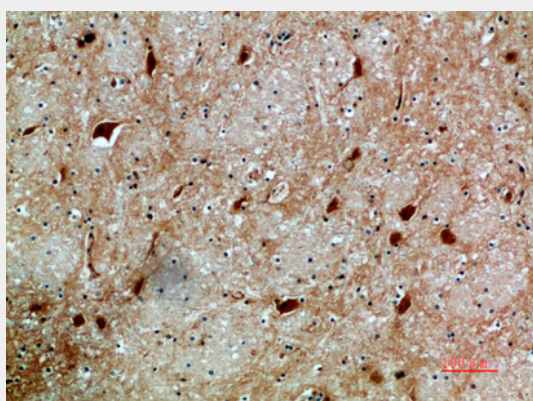
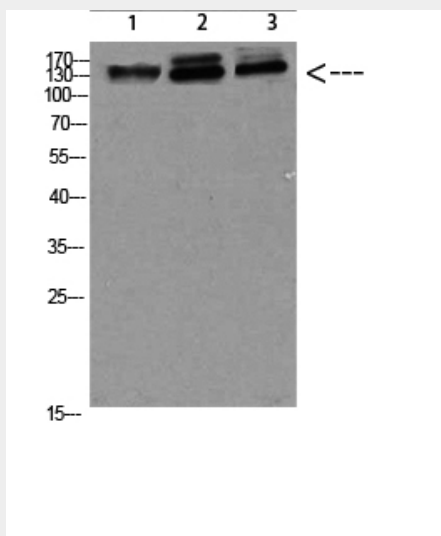
Widely expressed, with highest levels in skeletal muscle, brain, heart and peripheral blood leukocytes

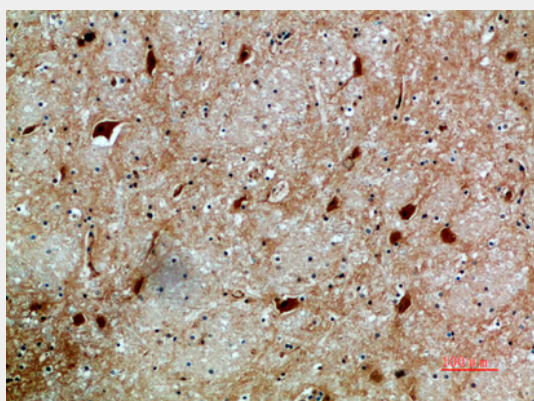
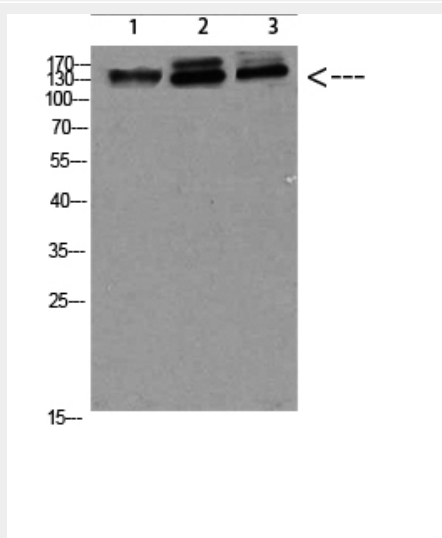
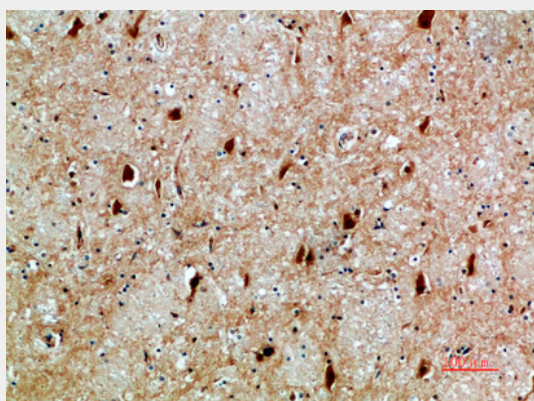
#### **NFAT5 Polyclonal Antibody - Protocols**

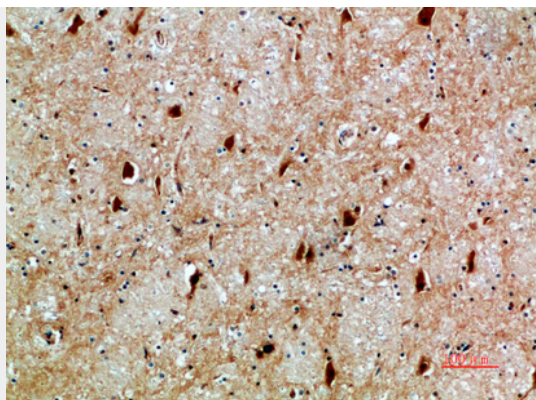
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **NFAT5 Polyclonal Antibody - Images**







### **NFAT5 Polyclonal Antibody - Background**

Transcription factor involved, among others, in the transcriptional regulation of osmoprotective and inflammatory genes. Mediates the transcriptional response to hypertonicity (PubMed:10051678). Positively regulates the transcription of LCN2 and S100A4 genes; optimal transactivation of these genes requires the presence of DDX5/DDX17 (PubMed:22266867). Binds the DNA consensus sequence 5'- [ACT][AG]TGGAAA[CAT]A[TA][ATC][CA][ATG][GT][GAC][CG][CT]-3' (PubMed:10377394).