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Nfatc2 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI14357

Specification

Nfatc2 antibody - N-terminal region - Product Information

Application	**WB**
Primary Accession	Q60591
Other Accession	NM_001037178, NP_001032255
Reactivity	**Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog**
Predicted	**Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**49kDa KDa**

Nfatc2 antibody - N-terminal region - Additional Information

Gene ID 18019

Alias Symbol **AI607462, NFAT1, NFAT1-D, Nfatp, NF-ATc2**

Other Names
Nuclear factor of activated T-cells, cytoplasmic 2, NF-ATc2, NFATc2, NFAT pre-existing subunit, NF-ATp, T-cell transcription factor NFAT1, Nfatc2, Nfat1, Nfatp

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 50 ul of distilled water. Final anti-Nfatc2 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions
Nfatc2 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Nfatc2 antibody - N-terminal region - Protein Information

Name Nfatc2

Synonyms Nfat1, Nfatp

Function
Plays a role in the inducible expression of cytokine genes in T cells, especially in the induction of the IL-2, IL-3, IL-4, TNF-alpha or GM-CSF. Promotes invasive migration through the activation of GPC6 expression and WNT5A signaling pathway (By similarity). Is involved in the negative regulation of chondrogenesis (PubMed:<a href="http://www.uniprot.org/citations/10620601"

target="_blank">10620601). Recruited by AKAP5 to ORAI1 pore-forming subunit of CRAC channels in Ca(2+) signaling microdomains where store-operated Ca(2+) influx is coupled to calmodulin and calcineurin signaling and activation of NFAT-dependent transcriptional responses.

Cellular Location
Cytoplasm. Nucleus. Note=Cytoplasmic for the phosphorylated form and nuclear after activation that is controlled by calcineurin- mediated dephosphorylation. Rapid nuclear exit of NFATC is thought to be one mechanism by which cells distinguish between sustained and transient calcium signals. The subcellular localization of NFATC plays a key role in the regulation of gene transcription

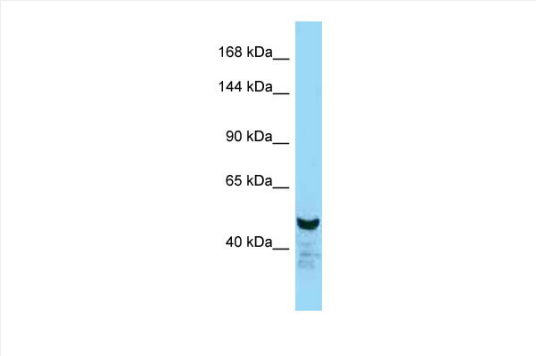
Tissue Location
Expressed in spleen, heart, testis, brain, placenta, muscle and pancreas (PubMed:18675896). Expressed in the thymus (PubMed:17579027, PubMed:18675896). Expressed in the lung (PubMed:17579027). Expressed in cartilage (PubMed:10620601)

Nfatc2 antibody - N-terminal region - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Nfatc2 antibody - N-terminal region - Images



WB Suggested Anti-Nfatc2 Antibody Titration: 1.0 µg/ml
Positive Control: Mouse Liver

Nfatc2 antibody - N-terminal region - References

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Luo C.,et al.Mol. Cell. Biol. 16:3955-3966(1996).
Plyte S.,et al.J. Biol. Chem. 276:14350-14358(2001).
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