

NFATC2 Recombinant monoclonal antibody

Catalog Number: 87895-1-RR

Basic Information

Catalog Number:

87895-1-RR

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG16849

GenBank Accession Number:

BC136418

GeneID (NCBI):

4773

UNIPROT ID:

Q13469

Full Name:nuclear factor of activated T-cells,
cytoplasmic, calcineurin-dependent 2**Calculated MW:**

925 aa, 100 kDa

Observed MW:

135 kDa

Purification Method:

Protein A purification

CloneNo.:

253473A12

Recommended Dilutions:

WB: 1:5000-1:50000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:WB : Sp2/O cells, mouse thymus tissue, rat spleen
tissue

Background Information

Nuclear factor of activated T-cells, cytoplasmic 2 (NFATC2), also named NFAT1, or NFATP, is a 925 amino acid protein, which is expressed in thymus, spleen, heart, testis, brain, placenta, muscle and pancreas. 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. NFATC2 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. NFATC2 promotes invasive migration through the activation of GPC6 expression and WNT5A signaling pathway. The calculated molecular weight of NFATC2 is about 97-100 kDa, but the modified NFATC2 protein is about 135 kDa.

Storage

Storage:

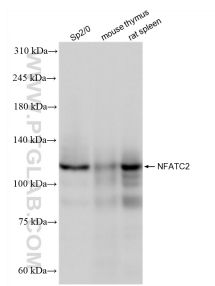
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

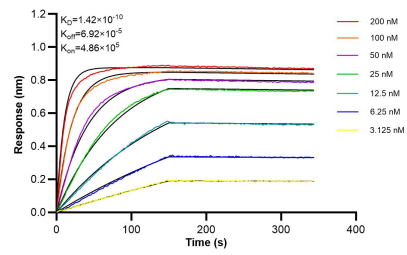
PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87895-1-RR (NFATC2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 87895-1-RR against Human NFATC2 were performed. The affinity constant is 0.142 nM.