Recombinant Phospho-Stat3 (Tyr705) Monoclonal Antibody

catalog number: AN300142P

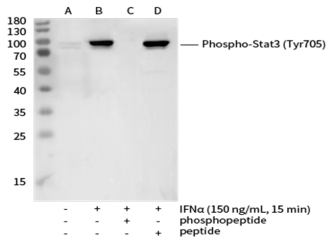
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human
Immunogen	A synthetic phosphopeptide corresponding to residues around Tyr705 of the Human Phospho-Stat3
Host	Rabbit
Isotype	IgG
Clone	4B8
Purification	Protein A
Buffer	0.2 μm filtered solution in PBS

Applications	Recommended Dilution
WB	1:500-1:5000

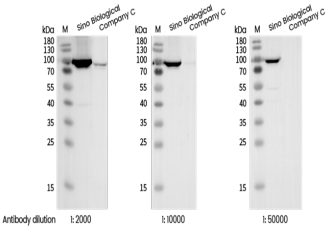
Data



Western blot analysis of extracts from serum-starved Hela, untreated (line A); treated with IFNα (150 ng/mL, 15 min), without peptide (line B) or antigen-specific phosphopeptide (line C) or antigen-specific peptide (line D) using Phospho-Stat3 (Tyr705) Monoclonal Antibody at 1:1000 dilution.

Observed-MW:90 kDa

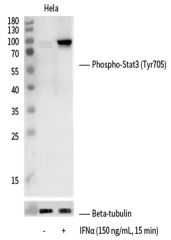
Calculated-MW:88 kDa



Western blot analysis of extracts from serum-starved Hela, untreated (-) and treated with IFN alpha 2 (150 ng/mL, 15 min) (+) using Phospho-Stat3 (Tyr705) Monoclonal Antibody at 1:1000 dilution or Beta-Tubulin Loading Control Antibody, Mouse Mab at 1:20000 dilution (lower).

Observed-MW:90 kDa

Calculated-MW:88 kDa



Western blot analysis of extracts from serum-starved Hela treated with IFNα (150 ng/mL, 15 min), using Phospho-Stat3 (Tyr705) Monoclonal Antibody and other brands' antibodies (Company C) at dilution of 1:2000, 1:10000 and 1:50000.

Observed-MW:90 kDa

Calculated-MW:88 kDa

Preparation & Storage

Storage	This antibody can be stored at 2℃-8℃ for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20℃ to -80℃. Preservative-Free. Avoid repeated freeze-thaw cycles.
Shipping	Ice bag

Background

The protein encoded by this gene is a member of the STAT protein family. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein is activated through phosphorylation in response to various cytokines and growth factors including IFNs, EGF, IL5, IL6, HGF, LIF and BMP 2. This protein mediates the expression of a variety of genes in response to cell stimuli, and thus plays a key role in many cellular processes such as cell growth and apoptosis. The small GTPase Rac1 has been shown to bind and regulate the activity of this protein. PIAS3 protein is a specific inhibitor of this protein. Mutations in this gene are associated with infantile-onset multisystem autoimmune disease and hyper-immunoglobulin E syndrome. Alternative splicing results in multiple transcript variants encoding distinct isoforms.

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