Data Sheet (Cat.No.TMAC-03275)

Anti-Phospho-STAT3 (Ser727) Antibody (9W152)

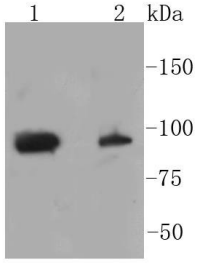
Product Details

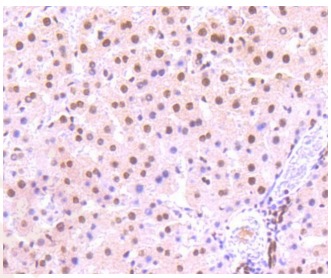
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 88 kDa.
Clone:	9W152
Purification:	ProA affinity purified

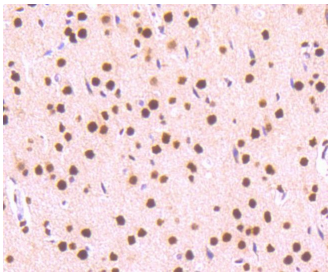
Applications

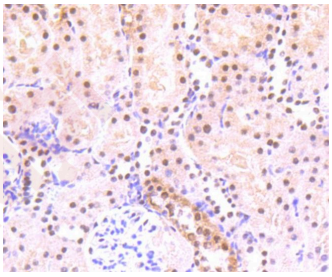
Verified Activity:

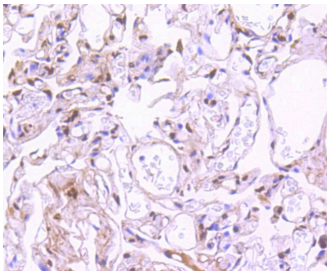
1. Western blot analysis of Phospho-STAT3 (S727) on different lysates using anti-Phospho-STAT3 (S727) antibody at 1/1,000 dilution. Positive control: Lane 1: Hela, Lane 2: NIH/3T3.
2. Immunohistochemical analysis of paraffin-embedded rat liver tissue using anti-Phospho-STAT3 (S727) antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-Phospho-STAT3 (S727) antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded rat kidney tissue using anti-Phospho-STAT3 (S727) antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded human lung tissue using anti-Phospho-STAT3 (S727) antibody. Counter stained with hematoxylin.
6. ICC staining Phospho-STAT3 (S727) in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
7. ICC staining Phospho-STAT3 (S727) in A431 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
8. ICC staining Phospho-STAT3 (S727) in NIH/3T3 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

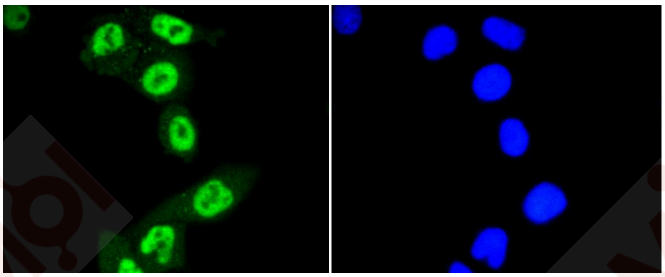


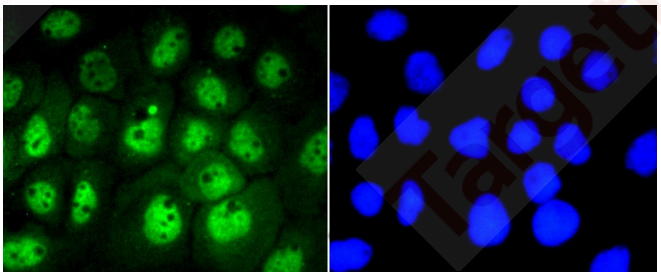


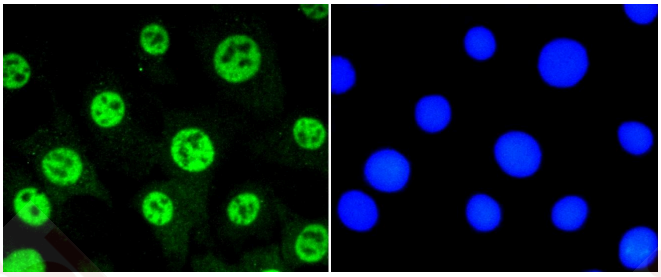












Application: ICC/IF,IHC,IP,WB

Recommended WB: 1:1000-2000; IHC: 1:50-200; ICC/IF: 1:50-200

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: A synthesized phosphopeptide: human STAT3 around the phosphorylation site of Ser727

Antigen Species: human

Uniprot ID: P40763

Synonyms: STAT3 (p-Ser727);p-STAT3 (S727);STAT3 (p-S727);p-STAT3 (Ser727)

Research Background

Membrane receptor signaling by various ligands, including interferons and growth hormones such as EGF, induces activation of JAK kinases which then leads to tyrosine phosphorylation of the various Stat transcription factors. Stat1 and Stat2 are induced by IFN-α and form a heterodimer which is part of the ISGF3 transcription factor complex. Although early reports indicate Stat3 activation by EGF and IL-6, it has been shown that Stat3β appears to be activated by both while Stat3α is activated by EGF, but not by IL-6. Highest expression of Stat4 is seen in testis and myeloid cells. IL-12 has been identified as an activator of Stat4. Stat5 has been shown to be activated by Prolactin and by IL-3. Stat6 is involved in IL-4 activated signaling pathways.