POLYCLONAL ANTIBODY



## **Anti-STAT2**

## (Anti-Signal transducer and activator of transcription 2)

member of the STAT family of cytoplasmic STAT transcription factors. members generally mediate cytokine, growth factor and hormone receptor signal transduction. STAT2 is a transcription factor critical to the signal transduction pathway of type I interferons (e.g. IFNα). STAT2 resides primarily in the cytoplasm and is tyrosinephosphorylated after IFN $\alpha$  binds to cell surface receptors. In response to tyrosine phosphorylation STAT2 rapidly localizes to the nucleus and acquires the ability to bind specific DNA targets in association with two other proteins, STAT1 and IFN regulatory factor-9 (IRF-9). STAT2 is phosphorylated at Y689 by receptor-associated Janus kinasses (JAKs) leading to STAT2 dimerization and subsequent translocation to the nucleus to activate gene transcription.

**Immunogen**: Synthetic peptide

**Type**: Purified **Isotype**: IgG

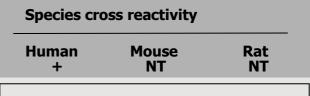
Size:  $100~\mu\ell$ 

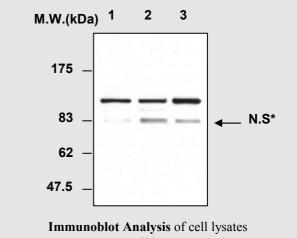
**Composition :** PBS containing 50% glycerol

**Positive control**: HeLa cell lysate

**Storage**: Store for 1 year at -20°C from date

of shipment





Lane 1 : HeLa cell lysate Lane 2 : K562 cell lysate Lane 3 : A431 cell lysate

\* N.S: Non-Specific band

## **Applications:**

Western blotting (1:2,000)

Immunoprecipitation was not tested

## **Background Reference:**

1)Brierley MM, et al, J Interferon Cytokine Res. 2005; vol.25(12): pp.733-44.

2)Brierley MM, Fish EN. J Biol Chem. 2005; vol.280(13): pp.13029-36.

3)Banninger G, Reich NC. J Biol Chem. 2004;

vol.279(38): pp.39199-206.

4) Ihle JN. Curr Opin Cell Biol. 2001; vol.13(2): pp.211-7.

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