# STAT1 Ab

<table>
<thead>
<tr>
<th>Cat.#: AF6300</th>
<th>Concn.: 1mg/ml</th>
<th>Mol.Wt.: 84kDa</th>
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<tr>
<td>Size: 100ul,200ul</td>
<td>Source: Rabbit</td>
<td>Clonality: Polyclonal</td>
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**Application:** WB 1:500-1:2000 IHC 1:50-1:2000 IP, IF/ICC 1:100-1:500

**Reactivity:** Human, Mouse, Rat

**Purification:** The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).

**Specificity:** STAT1 Ab detects endogenous levels of total STAT1.

**Immunogen:** A synthesized peptide derived from human STAT1.

**Uniprot:** P42224

**Description:** 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.

**Subcellular Location:** Cytoplasm. Nucleus. Translocated into the nucleus in response to IFN-gamma-induced tyrosine phosphorylation and dimerization.

**Similarity:** Belongs to the transcription factor STAT family.

**Storage Condition and Buffer:** Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at -20°C. Stable for 12 months from date of receipt.

**Western blot analysis of STAT1 expression in COLO205 whole cell lysates:** The lane on the left is treated with the antigen-specific peptide.
IRG1 increases MHC class I level in macrophages through STAT-TAP1 axis depending on NADPH oxidase mediated reactive oxygen species X Liu, XP Wu, XL Zhu, T Li, Y Liu
International Immunopharmacology, 2017 Elsevier

AF6300 staining Hela by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. The primary Ab was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary Ab.

AF6300 at 1/100 staining Human breast cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.

**IMPORTANT:** For western blot, incubate membrane with diluted primary Ab in 5% w/v milk, 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.