

Store at  
-20C  
#25656**Stat5 (D3N2B) Rabbit mAb**

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<b>Applications:</b> W, IP, IHC-P, IF-IC	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 90	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P42229, #P51692	<b>Entrez-Gene Id:</b> 6776, 6777
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**Product Usage Information****Application**

Western Blotting  
Immunoprecipitation  
Immunohistochemistry (Paraffin)  
Immunofluorescence (Immunocytochemistry)

**Dilution**

1:1000  
1:100  
1:100 - 1:400  
1:200 - 1:800

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #44645.

**Specificity/Sensitivity**

Stat5 (D3N2B) Rabbit mAb recognizes endogenous levels of total Stat5 protein. This antibody preferentially detects Stat5a, but may have weak reactivity for Stat5b.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the carboxy terminus of human Stat5 protein.

**Background**

Stat5 is activated in response to a wide variety of ligands, including IL-2, GM-CSF, growth hormone, and prolactin. Phosphorylation at Tyr694 is obligatory for Stat5 activation (1,2). This phosphorylation is mediated by Src upon erythropoietin stimulation (3). Stat5 is constitutively active in some leukemic cell types (4). Phosphorylated Stat5 is found in some endothelial cells treated with IL-3, which suggests its involvement in angiogenesis and cell motility (5). Stat5a and Stat5b are independently regulated and activated in various cell types. For instance, interferon treatment predominantly activates Stat5a in U-937 cells and Stat5b in HeLa cells (6).

**Background References**

1. Gouilleux, F. et al. (1994) *EMBO J* 13, 4361-9.
2. Wakao, H. et al. (1994) *EMBO J* 13, 2182-91.
3. Okutani, Y. et al. (2001) *Oncogene* 20, 6643-50.
4. Demoulin, J.B. et al. (1999) *J Biol Chem* 274, 25855-61.
5. Dentelli, P. et al. (1999) *J Immunol* 163, 2151-9.
6. Meinke, A. et al. (1996) *Mol Cell Biol* 16, 6937-44.

**Species Reactivity**

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer**

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

**Applications Key**

**W:** Western Blotting **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin) **IF-IC:** Immunofluorescence (Immunocytochemistry)

**Cross-Reactivity Key**

**H:** Human

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