

AP12721PU-N**Polyclonal Antibody to STAT5 / STAT5A pSer726 - Aff - Purified**

Alternate names:	MGF, Mammary gland factor, STAT-5, STAT-5A, Signal transducer and activator of transcription 5A
Quantity:	0.4 ml
Concentration:	lot specific
Background:	STAT5a is a member of the STAT family of transcription factors. 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 by, and mediates the responses of many cell ligands, such as IL2, IL3, IL7 GM-CSF, erythropoietin, thrombopoietin, and different growth hormones. Activation of this protein in myeloma and lymphoma associated with a TEL/JAK2 gene fusion is independent of cell stimulus and has been shown to be essential for the tumorigenesis. The mouse counterpart of this protein is found to induce the expression of BCL2L1/BCL-X(L), which suggests the antiapoptotic function of this protein in cells.
Uniprot ID:	P42229
NCBI:	9606
GeneID:	6776
Host / Isotype:	Rabbit / Ig
Immunogen:	This antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding Ser726 of human STAT5a.
Format:	State: Liquid purified Ig fraction. Purification: Protein G Affinity Chromatography. Then, the antibody fraction is peptide affinity purified in a 2-step procedure with control and phosphorylated peptides. The phospho-specific antibody is eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS. Buffer System: PBS with 0.09% (W/V) Sodium Azide as preservative.
Applications:	ELISA: 1/1,000. Western blot: 1/100-1/500. Immunohistochemistry: 1/50-1/100. Dot Blot: 1/500. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody detects STAT5a pSer726 Species: Human. Other species not tested.
Add. Information:	Molecular weight: 90647 Da

Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
 Avoid repeated freezing and thawing.
 Shelf life: one year from despatch.

Caution: This product is for research use only. Not for use in diagnostic or therapeutic procedures.

General Readings:

1. Martens, N., et al., J. Biol. Chem. 280(14):13817-13823 (2005).
2. Defilippi, P., et al., J. Cell Biol. 168(7):1099-1108 (2005).
3. Sekine, Y., et al., J. Biol. Chem. 280(9):8188-8196 (2005).
4. Sultan, A.S., et al., Oncogene 24(5):746-760 (2005).
5. Moriggl, R., et al., Cancer Cell 7(1):87-99 (2005).

Pictures: **Figure 2.** Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

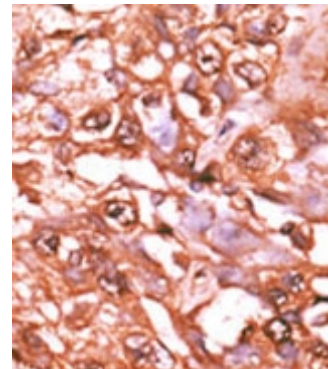


Figure 1. LEFT: Western blot analysis of anti-STAT5a pSer726 Antibody (Cat. #AP12721PU-N) in CEM cell line lysate (35ug/lane). Phospho-STAT5a(arrow) was detected using the purified Pab (1:60 dilution). **RIGHT:** Dot blot analysis of anti-Phospho-hSTAT5a-Ser726 Phospho-specific Antibody (Cat. #AP12721PU-N) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5ug per ml.

