ARG51552
anti-STAT5A phospho (Tyr694) antibody

Package: 100 µl, 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes STAT5A phospho (Tyr694)
Tested Reactivity	Hu, Ms, Rat
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	STAT5A
Species	Human
Immunogen	Peptide sequence around phosphorylation site of tyrosine 694 (D-G-Y(p)-V-K) derived from Human STAT5A.
Conjugation	Un-conjugated
Alternate Names	Signal transducer and activator of transcription 5A; STAT5; MGF

Application Instructions

Application table

Application	Dilution
IHC-P	1:50 - 1:100
WB	1:500 - 1:1000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

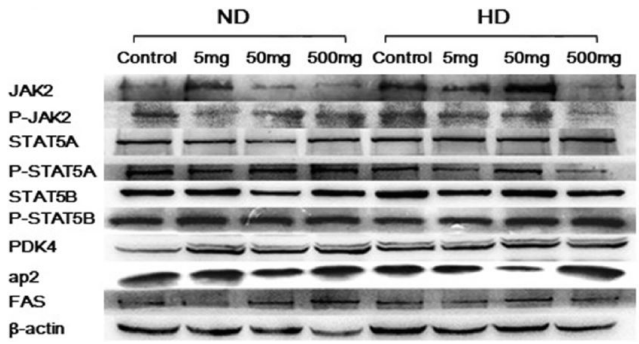
Form	Liquid
Purification	Antibodies were produced by immunizing rabbits with KLH-conjugated synthetic phosphopeptide. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. In addition, non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.
Buffer	PBS (without Mg2+ and Ca2+, pH 7.4), 150mM NaCl, 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	STAT5A
Gene Full Name	signal transducer and activator of transcription 5A
Background	Carries out a dual function: signal transduction and activation of transcription. Binds to the GAS element and activates PRL-induced transcription.
Function	Carries out a dual function: signal transduction and activation of transcription. Mediates cellular responses to the cytokine KITLG/SCF and other growth factors. Mediates cellular responses to ERBB4. May mediate cellular responses to activated FGFR1, FGFR2, FGFR3 and FGFR4. Binds to the GAS element and activates PRL-induced transcription. Regulates the expression of milk proteins during lactation. [UniProt]
Highlight	Related Antibody Duos and Panels: ARG30214 Phospho STAT5A Antibody Duo (Total, pY694) Related products: STAT5A antibodies; STAT5A Duos / Panels; Anti-Rabbit IgG secondary antibodies;
Research Area	Gene Regulation antibody; Signaling Transduction antibody
Calculated Mw	91 kDa
PTM	Tyrosine phosphorylated in response to KITLG/SCF, IL2, IL3, IL7, IL15, CSF2/GMCSF, GH1, PRL, EPO and THPO. Activated KIT promotes phosphorylation on tyrosine residues and subsequent translocation to the nucleus. Tyrosine phosphorylated in response to constitutively activated FGFR1, FGFR2, FGFR3 and FGFR4. Tyrosine phosphorylation is required for DNA-binding activity and dimerization. Serine phosphorylation is also required for maximal transcriptional activity (By similarity). Tyrosine phosphorylated in response to signaling via activated FLT3; wild-type FLT3 results in much weaker phosphorylation than constitutively activated mutant FLT3. Alternatively, can be phosphorylated by JAK2 at Tyr-694. Dephosphorylation on tyrosine residues by PTPN2 negatively regulates prolactin signaling pathway. ISGylated.

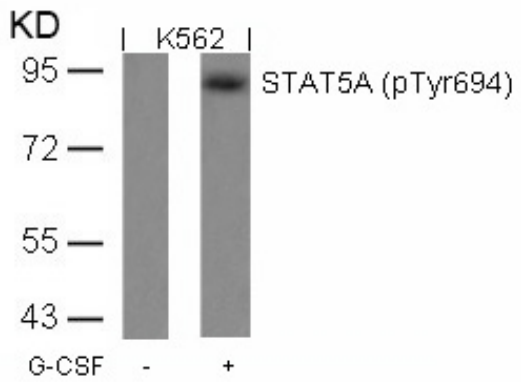
Images



ARG51552 anti-STAT5A phospho (Tyr694) antibody WB image

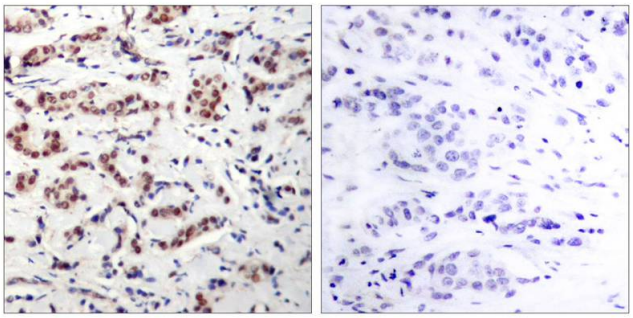
Western blot: Rat liver stained with ARG51552 anti-STAT5A phospho (Tyr694) antibody.

From Zhang Y et al. Environ Sci Pollut Res Int (2020), doi: 10.1007/s11356-019-06599-5, Fig. 5J.



ARG51552 anti-STAT5A phospho (Tyr694) antibody WB image

Western blot: Extracts from K562 cells untreated or treated with G-CSF stained with ARG51552 anti-STAT5A phospho (Tyr694) antibody.



ARG51552 anti-STAT5A phospho (Tyr694) antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human breast carcinoma tissue stained with ARG51552 anti-STAT5A phospho (Tyr694) antibody (left) or the same antibody preincubated with blocking peptide (right).