AbboMax, Inc

Innovation at Work

Order Information

Description: Rabbit anti Phospho-STAT3(pY705)	
Catalogue#:	500-12054
Lot#:	See the label
Size:	100 ug/200 ul
Host:	Rabbit
Clone:	N/A
Application:	ELISA, WB, IHC
Reactivity:	Hu, Rt, Ms, Dg, Bv, Ck,

Rabbit anti-Phospho- STAT3 (pTyr ^{705})

Synonym: Signal transducer and activator of transcription 3 (STAT3)

ANTIGEN PREPARATION

A synthetic peptide surrounding to the epitope -APYLK-- with phosphorylation sites at Tyr705 of STAT3 protein from human, mouse, rat, chicken dog and bovine origins.

BACKGROUND

STAT proteins (Signal transducer and activator of transcription) belong to a family of cytoplasmic transcription factors that can be phosphorylated by a lignad binding to its cell surface receptor. The phosphorylation of STAT3 induces STAT dimerization, nuclear translocation and DNA binding. Stat3 is constitutively activated in a number of human tumors. Stat3-activated transcription seems to be regulated by serine phosphorylation at Ser727 and tyrosine phosphorylation at Tyr705.

PURIFICATION

The Rabbit IgG is purified by site-modified Epitope Affinity Purification.

FORMULATION

This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes STAT3 (pY705) with a phosphorylated sites of Tyr705. It does not cross-react with non-phosphospecific peptide.

STORAGE

The antibodies are stable for 12 months from date of receipt when stored at –20°C to –70°C. The antibodies can be stored at 2°C-8°C for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

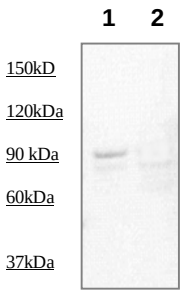
APPLICATIONS/SUGGESTED WORKING DILUTIONS

Western Blot	0.1-1 µg/ml
ELISA	0.01-0.1 µg/ml
Immunoprecipitation	2-5 µg/ml
IHC	1:50 µg/ml
Flow cytometry	Not tested

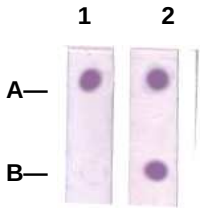
MOLECULAR WEIGHT:	94 kDa
POSITIVE CONTROL:	EGF-stimulated A431
CELLULAR LOCATION:	Nuclear

Optimal dilutions should be determined by researchers for the specific applications.

DATA ATTACHMENTS



Western Blot: The whole cell lysate derived from A431 with EGF stimulated (Lane 1) or without EGF stimulated (Lane 2) were immunoblotted by Rabbit anti STAT3 (pY705) (Cat#500-12054) antibody at 1:500.



Dot Blot:
1 µg peptide was blot onto NC membrane
A: STAT3 (pY705) (Phosphospecific)
B: STAT3 (Paired Y705) (Non phosphospeicfic)
were blotted at a 1:2000 dilution by:
1: Rabbit anti-STAT3 (Phospho specific), (Cat#500-12054).
2: Rabbit anti-STAT3 (Paired Y705)

REFERENCES

Ritsuko Matsuo et al. A new expression cloning strategy for isolation of substrate-specific kinases by using phosphorylation site-specific antibody. Journal of Immunological Methods. Volume 247, Issues 1-2, 1 January 2001, Pages 141-151

FOR RESEARCH USE ONLY.

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