

## **PRODUCT INFORMATION SHEET**

	Format: PURE RUO REF IQP-1490P Volume: 0.1n	nl					
l	Description						
Clone	3B5						
sotype	Mouse IgG1						
pecificity	STAT3						
Iternative ames	APRF; HIES; FLJ20882; MGC16063; STAT3						
pecies	Human, Mouse & Monkey						
mmunogen	Purified recombinant fragment of human STAT3 expressed in E. Coli.						
lw	88kDa						
ormat	Ascitic fluid containing 0.03% sodium azide.						
Summary	The Stat3 transcription factor is an important signaling molecule for many cytokines and growth-factor receptors and is required for murine fetal development . Stat3 is constitutively activated in number of human tumors and possesses oncogenic potential and anti-apoptotic activities. Stat3 is activated by phosphorylation at Tyr705, which induces dimerization, nuclear translocation and DNA binding. Transcriptional activation seems to be regulated by phosphorylation at Ser727 through the MAPK or mTOR pathways. Stat3 isoform expression appears to reflect biological function as the relative expression levels of Stat3 $\alpha$ (86 kDa) and Stat3 $\beta$ (79 kDa) depend on cell type, ligand exposure or cell maturation stage. It is notable that Stat3 $\beta$ lacks the serine phosphorylation site within the carboxy-terminal transcriptional activation domain.Tissue specificity: Heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.						
pplications	<ul> <li>Western Bloting: 1/500 - 1/2000.Immunohistochemistry: 1/200 - 1/1000.Immunofluorescence: 1/200 - 1/1000.ELISA: Propose dilution 1/10000.Not yet tested in other applications.Determining optimal working dilutions by titration test.</li> </ul>						
imitations	<ol> <li>Conjugates with brighter fluorochromes, like PE and APC, will have a greater separation the second se</li></ol>						
	<ol> <li>Use of monoclonal antibodies in patient treatment can interfere with antigen target by this reagent. This should be taken into account when samples are analyzed from treated in this fashion. IQ Products has not characterized the effect of the presence therapeutic antibodies on the performance of this reagent.</li> </ol>	n patients					
	<ol> <li>Reagents can be used in different combinations, therefore laboratories need to beconstantial performance characteristics of each antibody in relation with the combined</li> </ol>						

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### Handling and Storage

- Antibodies are supplied in 0.01 M sodium phosphate, 0.15 M NaCl; pH 7.3, 0.03% sodiumazide (NaN3) or as ascetic fluid containing 0.03% sodiumazide. Store the vials at 2-8 °C for a maximum of 2 weeks and store at -20°C for longer term storage. Monoclonal antibodies should be protected from prolonged exposure to light when conjugated with fluorochromes. Reagents are stable for the period shown on the vial label when stored properly.
- **Warranty** Products sold hereunder are warranted only to conform to the quantity and contents stated on the label at the time of delivery to the customer. There are no warranties, expressed or implied, which extend beyond the description on the label of the product. IQ Products is not liable for property damage, personal injury, or economic loss caused by the product.

#### Characterization

- To ensure consistently high-quality reagents, each batch of monoclonal antibody is tested for conformance with characteristics of a standard reagent. Representative flow cytometric data is included in this data sheet.
- **Warning** All products contain sodiumazide. This chemical is poisonous and hazardous. Handling should be done by trained staff only.

**References** 1. J Mol Graph Model. 2009 Nov;28(4):347-56. 2. Bone. 2010 Feb;46(2):524-33.

#### Explanation of used symbols

	Consult instructions for use
REF	Catalogue number
<b>V</b>	Sufficient for
	Caution, consult accompanying document
*	Keep away from (sun)light
& ∕	Biological risks
<u>x</u>	Temperature limitation (°C)
RUO LOT	For Research Use Only
LOT	Batch code
2	Use by yyyy-mm-dd
	Manufacturer Oright Tiuorescence
EC REP	Authorized Representative in the European Community
CE	Conformité Européenne (European Conformity)

D	PURE	Label - tandem purified material	Ex -max (nm)	Em -max (nm)
P				
F	FITC	FITC	488	519
R	R-PE	PE	488, 532	578
С	CyQ	PE-Cy5.18	488, 532	667
Α	APC		595, 633, 635, 647	660
PC	PerCP		488, 532	678
PCC	PerCP-Cy5.5		488, 532	695

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