Datasheet for ABIN1724704

anti-SYK antibody (AA 296-484)

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Overview

Quantity:	100 µL
Target:	SYK
Binding Specificity:	AA 296-484
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SYK antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	SYK Antibody
Immunogen:	Purified recombinant fragment of SYK (aa296-484) expressed in E. Coli.
Clone:	8C1A3
Isotype:	IgG1
Purification:	Ascitic fluid

Target Details

Target:	SYK
Alternative Name:	SYK (SYK Products)
Background:	SYK: spleen tyrosine kinase. Syk (72 kDa) is a non-receptor protein tyrosine kinase that plays an

Target Details

	important role in immune receptor signal transduction and is implicated in endothelial cell functions, including cell growth and migration. SYK is a positive effector of BCR stimulated responses. It couples the B cell antigen receptor (BCR) to the mobilization of calcium ions either through a phosphoinositide 3 kinase dependent pathway, when not phosphorylated on tyrosines of the linker region, or through a phospholipase C gamma dependent pathway, when phosphorylated on Tyr 342 and Tyr 346. Thus the differential phosphorylation of SYK can determine the pathway by which BCR is coupled to the regulation of intracellular calcium ions.
UniProt:	P43405
Pathways:	Fc-epsilon Receptor Signaling Pathway, Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process, Thromboxane A2 Receptor Signaling, BCR Signaling

Application Details

Application Notes:	ELISA: 1/10000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Ascitic fluid containing 0.03 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Publications

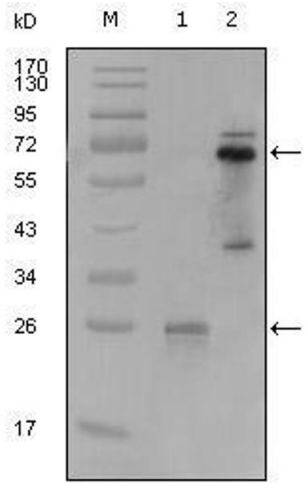
Product cited in:	Abbal, Lambelet, Bertaggia, Gerbex, Martinez, Arcaro, Schapira, Spertini: "Lipid raft adhesion receptors and Syk regulate selectin-dependent rolling under flow conditions." in: **Blood**, Vol. 108, Issue 10, pp. 3352-9, (2006) (PubMed). Kunze, Wendt, Schlott: "Promoter hypermethylation of the 14-3-3 sigma, SYK and CAGE-1 genes is related to the various phenotypes of urinary bladder carcinomas and associated with progression of transitional cell carcinomas." in: **International journal of molecular medicine**,

Publications

Vol. 18, Issue 4, pp. 547-57, (2006) (PubMed).

Wossning, Herzog, Köhler, Meixlsperger, Kulathu, Mittler, Abe, Fuchs, Borkhardt, Jumaa: " Deregulated Syk inhibits differentiation and induces growth factor-independent proliferation of pre-B cells." in: **The Journal of experimental medicine**, Vol. 203, Issue 13, pp. 2829-40, (2006) (PubMed).

Images



Western Blotting

Image 1. Western blot analysis using SYK mouse mAb against truncated SYK-His recombinant protein (1) and PMA induced THP-1 cell lysate (2).