Datasheet for ABIN94272

anti-PAG1 antibody (AA 97-432)

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Overview

Quantity:	0.1 mg
Target:	PAG1
Binding Specificity:	AA 97-432
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PAG1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS)

Product Details

Immunogen:	Recombinant intracellular fragment (aa 97-432) of human Cbp (PAG).
Clone:	MEM-255
Isotype:	IgG2a
Specificity:	The antibody MEM-255 recognizes an epitope (aa 235-280) of Csk-binding protein (Cbp) located in the cytoplasmic domain, also known as protein associated with glycosphingolipid-en riched microdomains (PAG).
No Cross-Reactivity:	Cow, Mouse, Rat
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.

Product Details

Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	PAG1
Alternative Name:	PAG / Cbp (PAG1 Products)
Background:	Phosphoprotein membrane anchor with glycosphingoli,PAG (phosphoprotein associated with GEMs), also known as Cbp (Csk-binding protein), is a ubiquitously expressed 46 kDa transmembrane adaptor protein present in membrane rafts (glycosphingolipid-enriched microdomains), which however migrates on SDS PAGE gels anomalously as an 80 kDa molecule. Following tyrosine phosphorylation by Src family kinases, PAG binds and thereby activates the protein tyrosine kinase Csk, the major negative regulator of the Src family kinases. Signaling via the B-cell receptor in B cells or high affinity IgE receptor (FcepsilonRI) in mast cells leads to PAG increased tyrosine phosphorylation and Csk binding, while T cell receptor signaling causes PAG dephosphorylation, loss of Csk binding and increased activation of the protein tyrosine kinase Lck.,CBP, PAG
Gene ID:	55824
UniProt:	Q9NWQ8
Pathways:	p53 Signaling, TCR Signaling, EGFR Signaling Pathway, CXCR4-mediated Signaling Events

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 2 µg/mL. Intracellular staining. Immunohistochemistry (paraffin sections): Positive tissue: tonsil, spleen. Western blotting: Csk binding protein is an ubiquitously expressed 46 kDa transmembrane adaptor protein present in membrane microdomains (rafts), which, however, migrates on SDS-PAGE gels anomalously as an 80 kDa molecule.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide

Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	**Do not freeze.**
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

Product cited in:

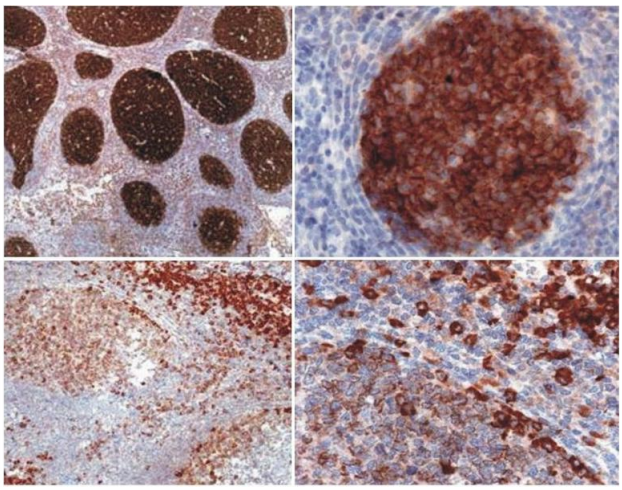
Schatzlmaier, Supper, Göschl, Zwirzitz, Eckerstorfer, Ellmeier, Huppa, Stockinger: "Rapid multiplex analysis of lipid raft components with single-cell resolution." in: **Science signaling**, Vol. 8, Issue 395, pp. rs11, (2015) (PubMed).

Yerly, Ding, Tauzin, van Echten-Deckert, Borisch, Hoessli: "The sphingolipid-rich rafts of ALK+ lymphomas downregulate the Lyn-Cbp/PAG signalosome." in: **European journal of haematology**, (2010) (PubMed).

Tedoldi, Paterson, Hansmann, Natkunam, Rüdiger, Angelisova, Du, Roberton, Roncador, Sanchez, Pozzobon, Masir, Barry, Pileri, Mason, Marafioti, Horejsí: "Transmembrane adaptor molecules: a new category of lymphoid-cell markers." in: **Blood**, Vol. 107, Issue 1, pp. 213-21, (2005) (PubMed).

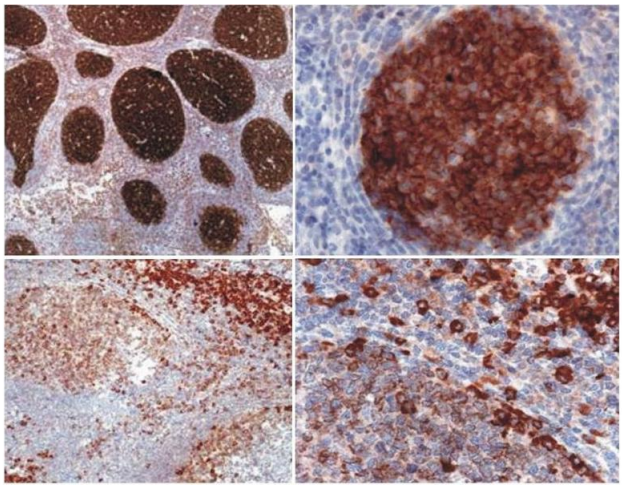
Davidson, Bakinowski, Thomas, Horejsi, Veillette: "Phosphorylation-dependent regulation of T-cell activation by PAG/Cbp, a lipid raft-associated transmembrane adaptor." in: **Molecular and cellular biology**, Vol. 23, Issue 6, pp. 2017-28, (2003) (PubMed).

Brdicková, Brdicka, Andera, Spicka, Angelisová, Milgram, Horejsí: "Interaction between two adapter proteins, PAG and EBP50: a possible link between membrane rafts and actin cytoskeleton." in: **FEBS letters**, Vol. 507, Issue 2, pp. 133-6, (2001) (PubMed).



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry staining (paraffin-embedded sections) using anti-Cbp/PAG (MEM-255). Cbp/PAG is expressed in germinal centers of lymph node lymphoid follicle and in follicular lymphoma (it is absent from mantle zone). Cbp/PAG is also expressed more weakly in T cells in tonsil and the thymic medulla.



Immunohistochemistry

Image 2. Immunohistochemistry of paraffin-embedded sections Immunohistochemistry staining (paraffin-embedded sections) using anti-Cbp/PAG (MEM-255). Cbp/PAG is expressed in germinal centers of lymph node lymphoid follicle and in follicular lymphoma (it is absent from mantle zone). Cbp/PAG is also expressed more weakly in T cells in tonsil and the thymic medulla.

