



Datasheet for ABIN94270  
**anti-PAG1 antibody (C-Term)**



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## Overview

Quantity:	0.1 mg
Target:	PAG1
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat, Cow
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PAG1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Immunogen:	C-terminal peptide (last 15 amino acids) of human Csk binding protein coupled to KLH.
Clone:	PAG-C1
Isotype:	IgG2b
Specificity:	The antibody PAG-C1 recognizes an epitope located in the intracellular C-terminal domain of Csk-binding protein (Cbp / PAG), a 46 kDa ubiquitously expressed transmembrane adaptor protein present in membrane rafts (glycosphingolipid-enriched microdomains), which however migrates on SDS PAGE gels anomalously as an 80 kDa molecule.
Cross-Reactivity (Details):	Mouse, Human, Rat, Bovine, Other not tested
Purification:	Purified by protein-A affinity chromatography.

## Product Details

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Purity: > 95 % (by SDS-PAGE)

## Target Details

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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: 94212

UniProt: [Q3U1F9](#)

Pathways: [p53 Signaling](#), [TCR Signaling](#), [EGFR Signaling Pathway](#), [CXCR4-mediated Signaling Events](#)

## Application Details

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Application Notes: Immunohistochemistry (paraffin sections): Positive tissue: appendix (germinal center of lymphatic follicle), heat-mediated antigen retrieval in citrate buffer pH 6.1.  
Immunoprecipitation: Positive control: RAJI human Burkitt lymphoma cell line.

Restrictions: For Research Use only

## Handling

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Concentration: 1 mg/mL

Buffer: Phosphate buffered saline (PBS), pH 7.4, 15 mM 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.

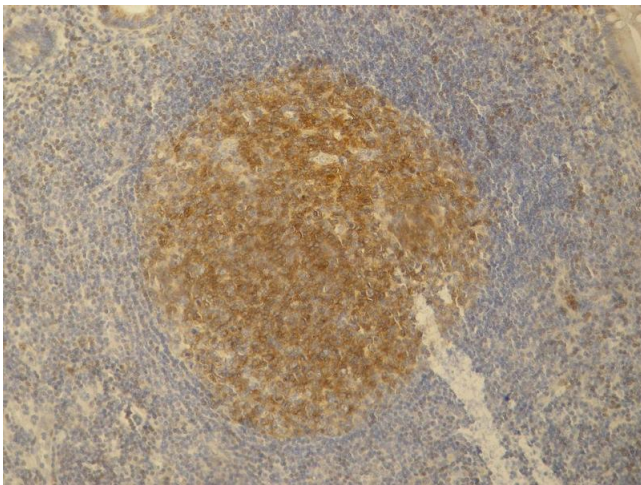
## Handling

Handling Advice:	<b>Do not freeze.</b>
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

## Publications

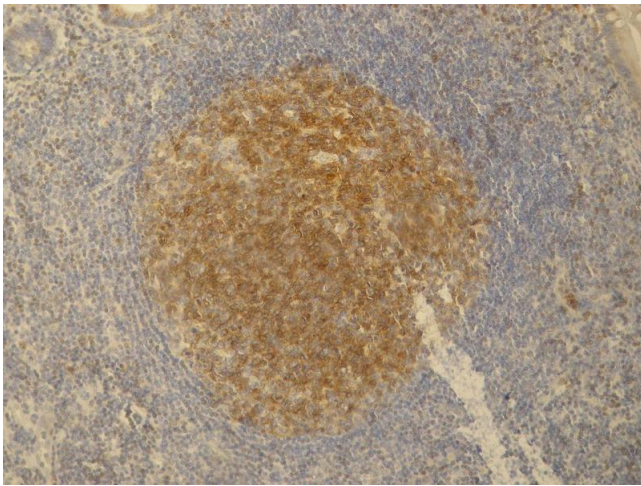
- Product cited in: Davidson, Bakinowski, Thomas, Horejsi, Veillette: "Phosphorylation-dependent regulation of T-cell activation by PAG/Cbp, a lipid raft-associated transmembrane adaptor." in: **Molecular and cellular biology**, Vol. 23, Issue 6, pp. 2017-28, (2003) ([PubMed](#)).
- Vang, Abrahamsen, Myklebust, Horejsi, Taskén: "Combined spatial and enzymatic regulation of Csk by cAMP and protein kinase a inhibits T cell receptor signaling." in: **The Journal of biological chemistry**, Vol. 278, Issue 20, pp. 17597-600, (2003) ([PubMed](#)).

## Images



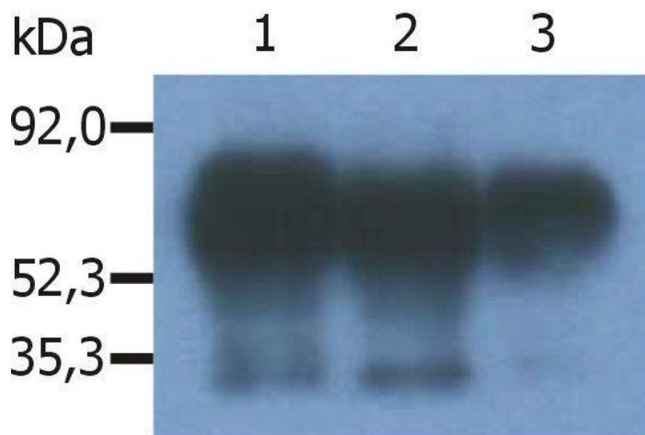
### Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** Immunohistochemistry staining (paraffin sections) of PAG/Cbp in germinal center of lymphatic follicle and in dispersed T cells in human appendix tissue by monoclonal antibody PAG-C1. Positive signal in T cells.



### Immunohistochemistry

**Image 2.** Immunohistochemistry staining (paraffin sections) of PAG/Cbp in germinal center of lymphatic follicle and in dispersed T cells in appendix tissue by monoclonal antibody. Positive signal in T cells.



### Immunoprecipitation

**Image 3.** Immunoprecipitation of human PAG/Cbp from the lysate of RAJI human Burkitt lymphoma cell line. Western blot was immunostained with anti-human PAG (MEM-255