

### 30-1224: Anti-PAG / Cbp Monoclonal Antibody (Clone:PAG-C1)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	PAG-C1
<b>Application :</b>	IP, WB, IHC
<b>Reactivity :</b>	Mouse, Human, Rat, Bovine
<b>Gene :</b>	PAG1
<b>Gene ID :</b>	55824
<b>Uniprot ID :</b>	Q9NWQ8
<b>Format :</b>	Purified
<b>Alternative Name :</b>	PAG1,CBP,PAG
<b>Isotype :</b>	Mouse IgG2b
<b>Immunogen Information :</b>	C-terminal peptide (last 15 amino acids) of human Csk binding protein coupled to KLH.

#### Description

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 (FcεRI) 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.

#### Product Info

<b>Amount :</b>	0.1 mg
<b>Purification :</b>	Purified by protein-A affinity chromatography
<b>Storage condition :</b>	Store at 2-8°C. Do not freeze.

#### Application Note

**Immunoprecipitation** *Positive control:* RAJI human Burkitt lymphoma cell line

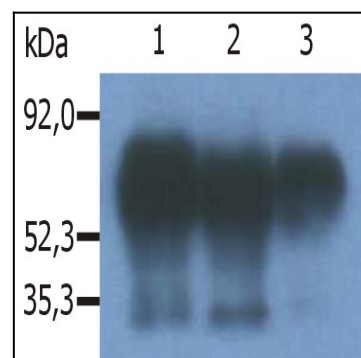


Figure 1: Immunoprecipitation of human PAG/Cbp from the lysate of RAJI human Burkitt lymphoma cell line. Western blot was immunostained with anti-human PAG (MEM-255; ). Note: PAG/Cbp is a 46 kDa adaptor protein, which however migrates on SDS PAGE gels anomalously as an 80 kDa molecule. Lane 2: immunoprecipitation with anti-PAG (PAG-C1). Lane 3: immunoprecipitation with anti-PAG (polyclonal antibody)

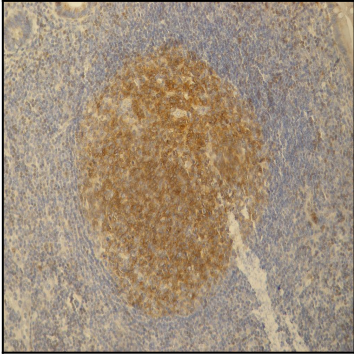


Figure 2: Immunohistochemistry staining (paraffin sections) of PAG/Cbp in germinal center of lymphatic follicle and in dispersed T cells in appendix tissue by monoclonal antibody PAG-C1. Positive signal in T cells.