9853 Pacific Heights Blvd.
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30-1225: Anti-PAG / Cbp Monoclonal Antibody (Clone:MEM-255)

Clonality :	Monoclonal
Clone Name :	MEM-255
Application :	FACS
Reactivity :	Human
Gene :	PAG1
Gene ID :	55824
Uniprot ID :	Q9NWQ8
Format :	Purified
Alternative Name :	PAG1,CBP,PAG
Isotype :	Mouse IgG2a
Immunogen Information :	Recombinant intracellular fragment (aa 97-432) of human Cbp (PAG).

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 (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.

Product Info

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

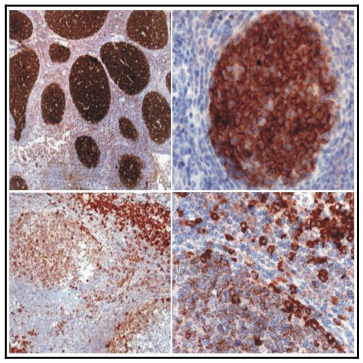


Figure 1: Immunohistochemistry staining (paraffin-embedded sections) using anti-Cbp/PAG (MEM-255).Cbp/PAG is expressed in germinal centers of lymph node lymphoid follicle and in follicular lymphoma (it is absent from mantle zone). Cbp/PAG is also expressed more weakly in T cells in tonsil and the thymic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

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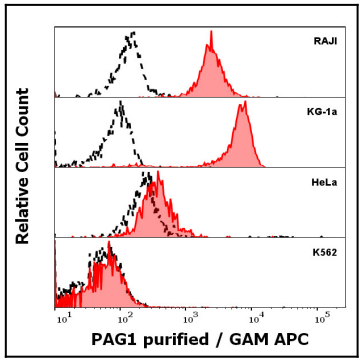


Figure 2: Anti-Hu PAG1 purified antibody (clone MEM-255) specificity verification by flow cytometry Anti-Hu PAG1 purified antibody (concentration in sample 0.3 µg/ml, GAM APC, red-filled histogram) binds specifically to intracellular PAG1 in permeabilized RAJI cells and KG-1a cells (upper panels), but does not stain permeabilized HeLa cells or K562 cells (lower panels). Level of non-specific binding was assessed using cells unstained by primary antibody (GAM APC, black-dashed histogram).

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