

TECHNICAL DATA SHEET

CyFlow™ PAG (Cbp) Purified Anti-Hu; Clone MEM-255

REF CG250095

For Research Use Only.
Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	PAG (Cbp)
Alternative Names	—
Clone	MEM-255
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG2a
Species Reactivity	Human
Negative Species Reactivity	Mouse Rat Cow
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Recombinant intracellular fragment (aa 97-432) of human Cbp (PAG)

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Specificity

The mouse monoclonal 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-enriched microdomains (PAG).

Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Western blot
- Immunohistochemistry (paraffin-embedded sections)

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH $\approx$ 7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

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 (Fc ϵ RI) 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.

References

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The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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