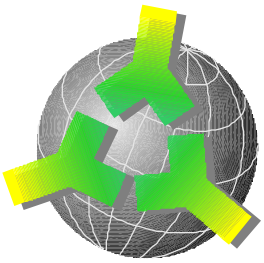
a n t i - P A G / C b p
affinity purified rabbit antibody IG-452

Lot: A01 **data sheet 080520— catalog # 0062-10**



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Background information

PAG (**p**hosphoprotein **a**ssociated with **g**lyco-sphingolipid-enriched micro domains) / C-terminal Src kinase (**C**sk) **b**inding **p**rotein (Cbp) is a ubiquitously expressed transmembrane adapter protein. Depending on its phosphorylation status, it appears as diffuse band(s) of 80-90 kDa in SDS-PAGE, with phosphorylation leading to a shift towards a higher apparent molecular mass. Tyrosine phosphorylated PAG/Cbp recruits Csk to the membrane and negatively regulates Src family kinases via Csk-mediated phosphorylation. Upon T cell receptor engagement, PAG/Cbp becomes dephosphorylated, thereby displacing Csk from the membrane and enabling the activation of the Src kinases Fyn and Lck.

Antibody preparation and storage

100 µg of purified antibody in PBS with 0.02% NaN_3. Antibody concentration: 1.0 mg/ml. Vials have been overfilled by 10% to ensure complete recovery of the specified amount. Stable for one year from date of shipment when stored at -20°C. For repeated use store at 4°C (short term).

Antigen

A synthetic peptide derived from the rat PAG/Cbp cytoplasmic tail sequence with an additional N-terminal Cys residue was used as antigen for immunization and purification.

Species cross-reactivity

mouse, (human)
rat (by inference)

Applications

Western (immuno) blotting of mouse cells (dilution 1:1000), immunoflourescence of mouse and human cells (dilution 1:50), immunoprecipitation with mouse and human cells (5 µg/sample).

All dilutions must be viewed as approximate. For optimal results the antibody should be titrated in each specific application.

Recommended positive control

For Western blotting use $1,5x10^6$ total splenocytes per lane as a positive control.

References

(*: papers referencing the antibody IG 452)

[1] Brdika et al. (2000). Phosphoprotein associated with glycosphingolipid-enriched microdomains (PAG), a novel ubiquitously expressed trans-membrane adaptor protein, binds the protein tyrosine kinase Csk and is involved in regulation of T cell activation. *J. Exp. Med.* 191:1591-16094

[2] Kawabuchi et al. (2000). Transmembrane phosphoprotein Cbp regulates the activities of Src-family tyrosine kinases. *Nature* 404: 945-947

*[3]Filby et al. (2007). Fyn regulates the duration of TCR engagement needed for commitment to effector function. *J. Immunology* 179: 4635-4644

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i m m u n o G l o b e A n t i k ö r p e r t e c h n i k G m b H
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