
Human Serum Amyloid P component or SAP

Cat. # SAP15-N

Purified Human SAP protein

SIZE: 100 ug

Serum amyloid P component or SAP or APCS, or PTX2 (mature chain 204 aa, chromosome 1q21-23) with which CRP has about 59% homology, is situated in the same area of chromosome 1. SAP is universally present in amyloid deposits (senile plaque and neurofibrillary tangles) in Alzheimer's patients. SAP levels in CSF can be useful for assessing cognitive impairment in AD patients. However, SAP appeared not to be required for A-beta deposition since no endogenous SAP immunoreactivity was found in mice overexpressing APP.

In mice with a targeted deletion of the SAP gene, induction of reactive amyloidosis was retarded, demonstrating the participation of SAP in pathogenesis of amyloidosis in vivo and confirming that inhibition of SAP binding to amyloid fibrils is an attractive therapeutic target. SAP knock out mice develop antinuclear autoimmunity and glomerulonephritis. However the exact role of SAP in SLE is not clear. SAP also neutralizes LPS and it is potentially useful in defense against serious gram-negative sepsis.

Source of Antigen and Antibodies

Human SAP was purified (>99%) from acute phase serum. All human source materials have tested negative for HIV 1, HIV 2, HIV Ag, HBsAg and HCV. No test guarantees a product to be non-infectious. Therefore, all material derived from human fluids or tissues should be considered as potentially infectious. Purified human SAP in native form is approx 235 kDa (monomer approx 25 kDa).

Purified human SAP (**Cat # SAP15-N**) is supplied in 10 mM Tris, pH 8.0, 140 mM NaCl, 10 mM EDTA, and 0.05% sodium azide at 100 ug/100 ul either as liquid or in powder form. Store undiluted liquid or powder at -20oC. Reconstitute powder in 100 ul water and store frozen at -20oC in suitable aliquots. Avoid repeated freeze and thaw.

Shipping: 4oC for solutions and room temp for powder.

Stability: 6-12 months from the date of shipping.

General References: Mortensen RF (1985) *Immunogenetics* 22: 367-375; Whitehead AS et al (1988) *Immunogenetics* 28: 388-390; Mantzouranis EC et al (1985) *J. Biol. Chem.* 260: 7752-7756; Botto M et al (1997) *Nature Med.* 3: 855-859; pepys MB et al (1979) *Nature* 278, 259;

**All product are for In vitro research use only.*

Related material available from ADI

Rat and Dog CRP antibodies and reference controls, Human and Rat CRP ELISA Kits; Mouse and Human SAP antibodies and purified proteins.

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