

C4BPA, C4BPB

Native Human C4b-Binding Protein, Plasma

Catalog No.	CRA105A CRA105B	Quantity:	100 µg 1.0 mg
Alternate Names:	C4b-binding protein alpha chain, C4b-binding protein beta chain		
Description:	<p>C4b-binding protein is a regulatory protein of the Complement Cascade that possesses decay-accelerating activity. Circulating in plasma, it aids in the control of fluid-phase and surface-associated activation of C3 and C5 and serves as a cofactor to Factor 1 in the proteolytic degradation of C4b.</p> <p>There are three isoforms circulating in plasma; 7 alpha chains and 1 Beta chain, 6 alpha chains and 1 Beta chain, and 7 alpha chains without a Beta chain. The 7 alpha, 1 Beta form is the most abundant. All C4BP molecules that contain a Beta chain circulate in plasma in a high-affinity, calcium-dependent complex with vitamin K-dependent, anticoagulant Protein S.</p> <p>C4b-binding protein has been investigated for its role in Alzheimer's Disease, Psoriasis, as well as autoimmune diseases including Rheumatoid Arthritis, and different cancers.</p>		
UniProt ID:	P04003, P20851		
Source:	Human plasma		
Molecular Weight:	570 kDa, whole molecule 70-75 kDa alpha chain 40-45 kDa beta chain		
Formulation:	Lyophilized from 10 mM Tris, pH 7.4, 100 mM NaCl, 0.05% NaN ₃		
Purity:	>95% by SDS-PAGE analysis		
Concentration:	≥ 1.0 mg/ml, lot specific		
Extinction Coefficient:	$E^{0.1\%}_{280nm} = 1.4$		
Storage & Stability:	Store at -20°C to -80°C for up to 1 year. Upon initial thaw, prepare working aliquots and store at -80°C. Avoid repeated freeze-thaw cycles.		
Certification:	Prepared from plasma shown to be non reactive for HbsAG, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA approved tests.		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

