



Anti-C5 polyclonal antibody (CPBT-65353SH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

Sheep anti human C5 polyclonal antibody recognizes complement component 5 (C5), a member of the complement system. The complement system consists of a tightly regulated network of proteins. Its activation leads to a sequential cascade of enzymatic reactions, resulting in opsonisation of the pathogens and their removal by phagocytes, as well as cell lysis. Three pathways have been described, the antibody-dependent pathway (classical pathway), the alternative pathway and the lectin activation pathway. The complement system plays a critical role in both innate and adaptive immune responses. It is also involved in tissue regeneration, tumor growth and some human pathologies. Complement component 5 is the initiator of the effector terminal phase of the complement system. C5 convertase cleaves C5 into C5a, a potent anaphylatoxin, and C5b, ultimately resulting in the formation of the multimeric membrane attack complex (MAC) together with the other components of the terminal pathway (C5b-C9). Sheep anti human polyclonal antibody gives a single arc when tested by immunoelectrophoresis (IEP) against human plasma. The identity has been confirmed by double diffusion against fresh human plasma and a known anti human C5.

Specificity	C5
Immunogen	Human C5, purified from plasma.
Isotype	IgG
Source/Host	Sheep
Species Reactivity	Human
Conjugate	Unconjugated
Applications	ID
Format	Ig fraction - liquid
Size	1 ml

Preservative	0.09% Sodium Azide
Storage	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody.

GENE INFORMATION

Gene Name	C5 complement component 5 [Homo sapiens (human)]
Official Symbol	C5
Synonyms	C5; complement component 5; C5D; C5a; C5b; ECLZB; CPAMD4; complement C5; prepro-C5; C5a anaphylatoxin; anaphylatoxin C5a analog; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 4;
Entrez Gene ID	727
Protein Refseq	NP_001726
UniProt ID	P01031
Chromosome Location	9q33-q34
Pathway	Activation of C3 and C5; Class A/1 (Rhodopsin-like receptors); Complement Activation, Classical Pathway; Complement and coagulation cascades; Complement cascade; Defective ACTH causes Obesity and Pro-opiomelanocortinin deficiency (POMCD); Disease; G alpha (i) signalling events;
Function	C5a anaphylatoxin chemotactic receptor binding; chemokine activity; endopeptidase inhibitor activity; protein binding; receptor binding;