

CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	Crry, Rat, clone TLD-1C11		
Catalog number	HM3032-100UG		
Lot number	xxxxxXxxxx-X	Expiry date	MMM YYYY
Volume	1 ml	Amount	100 µg
Formulation	0.2 μm filtered in PBS+0.1%BSA	Concentration	100 μg/ml
Host Species	Mouse IgG1	Conjugate	None
Endotoxin	<24 EU/mg	Purification	Protein G
Storage	4°C		

Application notes

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #								
Yes	•		•	•	•	•		•
No								
N.D.		•					•	

N.D.= Not Determined; IHC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immuno Precipitation; W = Western blot

Dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50.

General Information

Description	The monoclonal antibody TLD-1C11 reacts with rat-complement regulator Crry. Complement comprises a system of soluble serum proteins that, upon activiation by antibody (classical pathway), sugars (lectin pathway), or bacterial and foreign surfaces (alternative pathway), directly causes cell damage. Complement is constantly activated at low leve in serum, requiring cells to be protect themselves from damage. In human, cells are protected from complement mediated damage by expression of membrane-bound complement regulatory proteins, which act at serveral point along the cascade. Human cells are protected by decay-accelerating factor (DAF, CD55), membrane cofactor protei (MCP, CD46) and membrane attack complex inhibitor protein 1 (MIN1, CD59). Furthermore the rat analogues of DAI MCP and CD59 have been characterized. Rats and mice express a unique membrane complement regulator of the activating pathways, called complement receptor type-1 related gene Y (Crry). In rats there are two isoforms of Crr with six or seven short consensus repeats (SCR), encoding 65-70 and 75-85 kDa proteins, respectively, which ar both transmembrane anchored. Although Crry has the functional properties of both DAF and MCP, it does not replace them. All rat blood cells express Crry whereas approximately 37 and 39% of the rat T cells express respectively DA and CD59. Studies in rat revealed that despite lacking DAF and CD59, these double-negative rat T cells were not mor susceptible to homologous complement lysis than cells that expressed both DAF and CD59. However, blocking of the only other known rat complement regulator, Crry, enhanced lysis only at the double-negative cells. In rats, Crry exert powerful control in the activation pathways where it acts both as a cofactor and as a decay accelerator to inactivation convertases. Crry has been succesfully expressed and refolded in bacteria. The refolded protein has full-complement regulatory activity in vitro, and has been applied in rat models of arthritis and other inflammatory diseases. Th				
Immunogen	Rat microglial cells				
Aliases	p65, complement receptor type-1 related gene Y, Complement regulator Crry				
References	 Flaris, N et al; Characterization of microglia and macrophages in the central nervous system of rats: definitio of the differential expression of molecules using standard and novel monoclonal antibodies in normal CNS ar in four models of parenchymal reaction. Glia 1993, 7: 34 McGrath, Y et al; Development of adenovirus vectors encoding rat complement regulators for use in therapy rodent models of inflammatory diseases. J Immunol 1999, <i>163</i>: 6834 Fraser, D et al; Bacterial expression and membrane targeting of the rat complement regulator Crry: a new mod anticomplement therapeutic. Protein Sci 2002, <i>11</i>: 2512 Hanna, S et al; Rat T cells express neither CD55 nor CD59 and are dependent on Crry for protection fro homologous complement. Eur J Immunol 2002, <i>32</i>: 502 				
Storage&stability	Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year.				
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Precautions

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Approved by Manager of QC Brenda Teunissen

Date 12/06/2024

Do you have any questions or comments regarding this product? Please contact us via support@hycultbiotech.com.

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