

Technical Data Sheet

Purified Rat Anti-Mouse Crry/p65

Product Information

Material Number:	550058
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	1F2
Immunogen:	Recombinant soluble Crry/p65 protein
Isotype:	Rat (SD) IgG2a, κ
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The 1F2 mAb reacts with Crry/p65, a cell-surface protein that blocks complement activation and C3 deposition by both the classical and alternative pathways. Based on nucleotide sequence identity, Crry/p65 is the genetic homologue of human CR1 (Complement Receptor 1). However, it has been proposed that Crry/p65 is the functional homologue of human MCP (Membrane Cofactor Protein) and/or DAF (Decay-Accelerating Factor), due to the similar functions these proteins share and the fact that Crry/p65 does not display CR1's complement-receptor activity. Crry/p65 is expressed in most organs, such as thymus, kidney, uterus, skin, lung, pancreas, heart, stomach, large and small intestine, and spleen. Platelets, brain, and muscle express low, but detectable levels of Crry/p65. In addition, Crry/p65 is expressed in J774 cells, bone marrow-derived macrophages, and thioglycollate-elicited peritoneal macrophages, as determined by RT-PCR. Crry is crucial in the regulation of complement activation during early mouse embryonic development and essential in fetomaternal tolerance. The 1F2 mAb partially blocks Crry/p65-mediated complement protection *in vitro*.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at 4° C and protected from prolonged exposure to light. Do not freeze.

Application Notes

Application

Flow cytometry	Routinely Tested
ELISA Capture	Reported
Functional assay	Reported
Immunohistochemistry-zinc-fixed	Reported
Immunohistochemistry-frozen	Reported
Immunohistochemistry-paraffin	Not Recommended

Recommended Assay Procedure:

Other reported applications include ELISA of recombinant soluble Crry/p65 protein, *in vitro* blocking of Crry/p65 function, and immunohistochemical staining (IHC) of zinc-fixed paraffin-embedded sections and acetone-fixed frozen sections. This antibody is not recommended for western blot analysis or IHC of formalin-fixed paraffin-embedded sections.

Suggested Companion Products

Catalog Number	Name	Size	Clone
553927	Purified Rat IgG2a, κ Isotype Control	0.5 mg	R35-95
554016	FITC Goat Anti-Rat Ig	0.5 mg	Polyclonal

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

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