

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse MR1 in direct ELISAs.
Source	Monoclonal Rat IgG _{2A} Clone # 909417
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse MR1 Met1-Arg296 Accession # Q8HWB0
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Immunohistochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

The Major Histocompatibility Complex (MHC) class I-related gene, MR1, considered a non-classical MHC class IA gene which is encoded outside the MHC region. The MR1 is responsible for activation of Mucosal-associated Invariant T (MAIT) cells expressing semi-invariant T cell receptors in the presence of bacteria. MR1 is a highly evolutionary conserved protein with regard to α1 and α2 domains corresponding to the peptide-binding domains of classical MHC class I molecules which show about 90% amino acid identity between human and mouse. MR1 protein can associate with β2-microglobulin, which indicates that this is a typical class I heterodimer composed of a heavy and a light chain resembling the classical MHC class I molecules.

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