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Product datasheet for SM311PS

MHC Class I (RT1Aa) Mouse Monoclonal Antibody [Clone ID: OX-18]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OX-18
Applications:	FC, IHC, IP
Recommended Dilution:	Flow cytometry: use 10 µl of 1/50 - 1/100 diluted antibody to label 10e6 cells in 100 µl. (This product is routinely tested in flow cytometry on rat splenocytes). Immunohistochemistry on frozen sections: Acetone fixation is recommended - the antigen is sensitive to fixation with paraformaldehyde. Not suitable for immunohistochemistry on paraffin sections. ELISA. Immunoprecipitation.
Reactivity:	Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Rat spleen glycoproteins
Specificity:	This antibody recognizes a monomorphic determinant of rat MHC Class I (RT1A), expressed by all rat strains. However, qualitative measurements suggest that not all of the class I molecules are recognized.
Formulation:	PBS, pH 7.4, containing 0.09% sodium azide State: Purified State: Liquid IgG fraction
Concentration:	lot specific
Purification:	Protein G affinity chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Database Link:	P16391

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Background: MHC Class I molecules play a central role in the immune system by presenting peptides derived from the endoplasmic reticulum lumen. MHC class I antigens are heterodimers consisting of one alpha chain (44kDa) with beta 2 microglobulin (11.5 kDa). The antigen is expressed by all somatic cells at varying levels. MHC Class I molecules are expressed on most nucleated cells where they present endogenously synthesized antigenic peptides to CD8+ T lymphocytes, which are usually cytotoxic T cells. Fibroblasts or neurons however only show a low level of antigen.

Note: MRC OX-18 has been used in immunoaffinity purification of rat MHC class I molecules.