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Product datasheet for SM2206P

MHC Class I (RT1Aa) Mouse Monoclonal Antibody [Clone ID: F16-4-4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	F16-4-4
Applications:	FC, IHC
Recommended Dilution:	Flow Cytometry (1/100-1/200). Immunohistochemistry on Frozen Sections.
Reactivity:	Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Partially purified rat MHC antigens. Spleen cells of immunised BALB/c mice were fused with cells from the NS-1 mouse myeloma line.
Specificity:	This antibody recognises the RT1A MHC class I antigen binding to a monomorphic epitope expressed by all strains, although strains of haplotype c more weakly.
Formulation:	State: Purified State: Liquid purified IgG containing 0.09% Sodium Azide as preservative.
Concentration:	lot specific
Purification:	Affinity chromatography on Protein G
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

View online »

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.