

Product datasheet for **SM1855P**

MHC Class I (monomorphic) Mouse Monoclonal Antibody [Clone ID: 2G5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	2G5
Applications:	FC, IP
Recommended Dilution:	Immunoprecipitation. Flow Cytometry: Use 10µl of 1/10-1/25 diluted antibody to label 10e6 cells in 100µl.
Reactivity:	Bovine, Guinea Pig, Hamster, Human, Mouse, Porcine, Sheep
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Purified H-2Keb and H-2Deb MHC-I molecules. Spleen cells from immunised C1D mice were fused with cells of the X63 myeloma cell line.
Specificity:	This antibody recognises a monomorphic epitope on the MHC class I antigen. The epitope recognised by clone 2G5 is conformation dependent and is reported to be phylogenetically conserved. Reactivity has been observed with some canine samples suggesting that this antibody may recognise a polymorphic epitope of canine MHC class 1.
Formulation:	PBS, pH 7.4 State: Purified State: Liquid purified IgG fraction from Tissue Culture Supernatant Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Store 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.



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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.

Synonyms:

MHC Class 1, HLA Class 1