

## Product datasheet for **SM1855F**

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

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	2G5
Applications:	FC
Recommended Dilution:	<b>Flow Cytometry:</b> Use 10 µl of Neat-1/5 diluted antibody to label 10e6 cells in 100 µl.
Reactivity:	Bovine, Guinea Pig, Hamster, Human, Mouse, Porcine, Rat
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Purified H-2Kb and H-2Db 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 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. Label: FITC State: Liquid purified IgG fraction. Label: Fluorescein Isothiocyanate Isomer 1
Concentration:	lot specific
Purification:	Affinity chromatography on Protein G
Conjugation:	FITC
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. 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