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Product datasheet for AM33374PU-N

MHC Class I Mouse Monoclonal Antibody [Clone ID: BRA-23/9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	BRA-23/9
Applications:	FC, IHC
Recommended Dilution:	**Flow Cytometry.** **Immunohistochemistry Frozen Sections.**
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	REH cells, a Human pre-B cell leukaemia cell line.
Specificity:	The antibody BRA-23/9 is directed against a non-polymorphic determinant of Human HLA Class I. The antibody has not been tested for cross reactivity with other species. The BRA-23/9 antibody is suitable for the detection of HLA Class I antigen by Flow Cytometry and Immunohistochemistry on Frozen tissues, for example from human tonsil, lymph nodes, as well as lymphocytes.
Formulation:	PBS State: Purified State: Liquid purified IgG fraction Stabilizer: 0.2% BSA, 50% Glycerol Preservative: 0.02% Sodium Azide
Concentration:	lot specific
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: The major histocompatibility complex (MHC) is a cluster of genes that play an important role in the immune response. In humans, this complex is referred to as the Human Leucocyte Antigen (HLA) system. There are three major HLA class I genes which are HLA-A, HLA-B and HLA-C. These are highly polymorphic and thousands of alleles are known to exist. The HLA-A, B and C gene products are heterodimeric cell surface glycoproteins which all consist of a 40-45kD MHC-encoded alpha chain and a non-covalently linked non-MHC encoded light chain (b2-microglobulin) of 12kDa. These proteins are found on the surface of almost all nucleated cells and their role is to present peptides, produced by intracellular protein degradation, to cytotoxic T lymphocytes and natural killer cells.

Synonyms: HLA Class 1, MHC Class 1, Major Histocompatibility complex class I