H2-K^b (DaB1): sc-65382

**SOURCE**

H2-K^b (DaB1) is a mouse monoclonal antibody raised against C57B1 splenocytes of mouse origin.

**PRODUCT**

Each vial contains 100 µg IgG1 in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**

H2-K^b (DaB1) is recommended for detection of MHC class I H2-K^b haplotype of mouse origin by flow cytometry (1 µg per 1 x 10^6 cells).

Molecular Weight of H2-K^b: 44 kDa.

**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

**BACKGROUND**

Major histocompatibility complex (MHC) molecules form an integral part of the immune response system. They are cell-surface receptors that bind foreign peptides and present them to cytotoxic T lymphocytes (CTLs). MHC class I molecules consist of two polypeptide chains, a heavy chain (H2-K^b) and a non-covalently associated protein, β-2-Microglobulin. Genes coding for the components of the MHC are located on human chromosome 6. When not forming the heavy chain of MHC class I assemblies, the free H2-K^b molecules are retained in the endoplasmic reticulum in fibroblasts. Treatment with plasmids containing the H2-K^b gene has been shown to reduce the proliferation of certain head and neck cancers in mice.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: HLA-G (human) mapping to 6p21.3; H2-K1 (mouse) mapping to 17 B1.