

H2-K^k (36-7-5): sc-52551

BACKGROUND

Major histocompatibility complex (MHC) molecules, which include human leukocyte antigens (HLAs), 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: an α or heavy chain, and a non-covalently associated protein, β -2-Microglobulin. MHC class II molecules consist of a non-covalent complex of an α and β chain. The differential structural properties of MHC class I and class II molecules account for their respective roles in activating different populations of T lymphocytes. H2-K^k is a mouse MHC class I protein that is highly expressed on L929 fibroblasts.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: H2-K1 (mouse) mapping to 17 B1.

SOURCE

H2-K^k (36-7-5) is a mouse monoclonal antibody raised against A.AL splenocytes of mouse origin.

PRODUCT

Each vial contains 100 μ g IgG_{2a} in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

H2-K^k (36-7-5) is available conjugated either phycoerythrin (sc-52551 PE, 100 tests in 2 ml) or fluorescein (sc-52551 FITC, 100 tests in 2 ml), for IF, IHC(P) and FCM.

APPLICATIONS

H2-K^k (36-7-5) is recommended for detection of H2-K^k MHC class I alloantigen of mouse origin by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 μ g per 1 x 10⁶ cells); non-cross-reactive with other (e.g. b, d, q) haplotypes; may cross-react with splenocytes of SJL/Hsd mice.

Molecular Weight of H2-K^k: 41 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 for detailed protocols and support products.