



## H2-I/E $\kappa$ (17-3-3): sc-52547

### 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  $\alpha$  or heavy chain and a non-covalently associated protein,  $\beta$ -2-Microglobulin. MHC class II molecules consist of a non-covalent complex of an  $\alpha$  and  $\beta$  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-E is an MHC class II molecule and the mouse homolog of human HLA-DR.

### REFERENCES

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### SOURCE

H2-I/E $\kappa$  (17-3-3) is a mouse monoclonal antibody raised against C3H skin graft and splenocytes of mouse origin.

### PRODUCT

Each vial contains 100  $\mu$ g IgG<sub>2a</sub> in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

H2-I/E $\kappa$  (17-3-3) is available conjugated phycoerythrin (sc-52547 PE, 100 tests in 2 ml), for WB (RGB), IF, IHC(P) and FCM.

### APPLICATIONS

H2-I/E $\kappa$  (17-3-3) is recommended for detection of H2-I/E $\kappa$  alloantigen on cells of the H-2r haplotype of mouse origin by flow cytometry (1  $\mu$ g per 1 x 10<sup>6</sup> cells); non cross-reactive with H2-d and H2-p haplotypes.

### SELECT PRODUCT CITATIONS

- Yaciuk, J.C., Pan, Y., Schwarz, K., Pan, Z.J., Maier-Moore, J.S., Kosanke, S.D., Lawrence, C. and Farris, A.D. 2015. Defective selection of thymic regulatory T cells accompanies autoimmunity and pulmonary infiltrates in Tcr $\alpha$ -deficient mice double transgenic for human La/Sjögren's syndrome-B and human La-specific TCR. *J. Immunol.* 194: 1514-1522.

### 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](http://www.scbt.com) for detailed protocols and support products.