

## H2-I/E $\kappa$ (14-4-4S): sc-52546

### 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 $\kappa$  (14-4-4S) is a mouse monoclonal antibody raised against C3H skin graft and splenocytes of mouse origin.

### RESEARCH USE

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

### 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 $\kappa$  (14-4-4S) is available conjugated either phycoerythrin (sc-52546 PE, 100 tests in 2 ml) or fluorescein (sc-52546 FITC, 100 tests in 2 ml), for IF, IHC(P) and FCM.

### APPLICATIONS

H2-I/E $\kappa$  (14-4-4S) is recommended for detection of H2-I/E $\kappa$  of mouse origin by immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1  $\mu$ g per 1 x 10<sup>6</sup> cells); may cross-react with rat class II alloantigen RT1D.

### STORAGE

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

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.