

Qa-2 (5K44): sc-71948

BACKGROUND

Qa-1—5 are non-classical MHC class I cell surface antigens encoded by the region of the murine 17th chromosome telomeric to H2-D. The molecular weight and subunit structure of Qa-2 molecules are similar to H2 antigens, though the Qa-2 heavy chain has two additional NH₂-terminal amino acids and several critical amino acid interchanges. Qa-2 affects the rate of embryonic cleavage during the preimplantation stages of development and is also involved in adaptive and innate immune responses. The Qa-2 antigen also functions in resistance to *T. crassiceps* cysticercosis. Qa-2 is unique in that it can associate with a diverse array of peptide sequences and requires two dominant C-terminal anchor residues when binding to peptides.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: H2-Q7 (mouse) mapping to 17 B1.

SOURCE

Qa-2 (5K44) is a mouse monoclonal antibody raised against C3H.SW skin graft and 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.

Qa-2 (5K44) is available conjugated fluorescein (sc-71948 FITC, 100 tests in 2 ml), for IF, IHC(P) and FCM.

APPLICATIONS

Qa-2 (5K44) is recommended for detection of a Qa-2 determined alloantigen of mouse origin by flow cytometry (1 μ g per 1 x 10⁶ cells).

Suitable for use as control antibody for Qa-2 siRNA (m): sc-72141, Qa-2 shRNA Plasmid (m): sc-72141-SH and Qa-2 shRNA (m) Lentiviral Particles: sc-72141-V.

Molecular Weight of Qa-2: 37 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.