

Anti-MHC I [R1-21.2] Standard Size Ab00880-8.4

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This chimeric rat antibody was made using the variable domain sequences of the original format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Rat IgG2b, Fc Silent™, Kappa

Clone Number: R1-21.2

Alternative Name(s) of Target: R1.21.2; H-2; MHC-I; MHC Class I

UniProt Accession Number of Target Protein:

Published Application(s): IP, radioimmunoassay, IHC

Published Species Reactivity: Mouse

Immunogen: This antibody was raised by immunising Lewis 1F rats with mouse CH-1 lymphoma cells. Spleen cells from immunised rats were fused with X-63Ag8-653 myeloma cells to generate hybridomas.

Specificity: This antibody is specific for murine MHC class I, and binds to polymorphic H-2 determinants expressed on most haplotypes. This antibody is, therefore, able to bind all H-2 class I molecules, independent of the allele. This antibody inhibits the binding of most mouse anti-H-2 antibodies to H-2k cells.

Application Notes: This antibody binds murine H-2 MHC class I molecules, and has been used in both structural and biochemical studies. It has been employed to assess MHC class I expression in frozen, acetone-fixed mouse brain sections by immunohistochemistry (Miralvès et al, 2007), and to stain paraffin-embedded sections of mouse liver for H-2Kb expression (Limmer et al, 2005). It has also been used to precipitate mouse H-2Kk and H-2Dk class I molecules from detergent lysates of Ltk3.3/1 cells (Rada et al, 1990), and to stain H-2Kb and H-2Kk-expressing cells in FACS analysis (Bendelac, 1995). Cellular radioimmune assays have been used to confirm the binding of this antibody to spleen cells, and assess its strain specificity (Koch et al, 1983).

Antibody First Published in: Koch et al Comparison of allogeneic and xenogeneic determinants on the H-2Kk molecule Transplantation, August 1983, Vol.36(2), pp.177-80 [Peer Reviewed Journal] [PMID:6192569](#)

Note on publication: Describes the original generation and characterisation of this antibody.

Product Form

Size:

200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.