MI-6, A HYBRIDOMA SECRETING MONOCLONAL ANTIBODY THAT BINDS TO MOUSE NKG2D

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ABSTRACT

Thid invention relates to the development of a rat monoclonal antibody (Rat IgG2a/lambda) that binds specifically to the mouse NKG2D stimulatory receptor expressed by NK cells, activated CD8+ T cells, a subset of NK1.1+ T cells, and a subset of gama delta T cells. In cell culture, the antibody stimulates the receptor when in a crosslinking form, and blocks the receptor when in a soluble form. In vivo, the antibody does not deplete NKG2d+ cells ro strongly downmodulate it, but does block NKG2D-ligand interactions.

Reference:

Jamieson, A.M. & et al. 2002. the role of the NKG2D Immunoreceptor in Immume Cell Activation and Natural Killiing. Immunity. 17:19-29

APPLICATIONS

Useful for detecting NKG2D cell surface expression.

Can be used in vivo to block NKG2D-ligand interactions without depleting NKG2D+ cells.

ADVANTAGES

Does not crossreact with other tested receptors including NKG2A, B, C, & E.

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OTHER INFORMATION

RELATED CASES

2004-095-0

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