

AM05280PU-N**Monoclonal Antibody to Natural Killer Cell Receptor-P1 - Purified**

Alternate names:	Klrb1c NKR-P1, NKR-P1
Quantity:	0.1 mg
Concentration:	Lot specific
Background:	Natural Killer (NK) cells are large, granular lymphocytes found primarily in peripheral blood, where they make up about 10% of the lymphocyte population. Their function is to defend against certain types of tumor cells and virally infected cells. When triggered, the cells release cytotoxic granules which induce either apoptosis or necrosis in the target cell. There are known to be two sets of cell surface receptor on NK cells which recognize target cells with opposing functions. One set, of which an example is NKR-P1 receptors, trigger cytokine release and cell cytotoxicity and the other set, of which Ly49A is an example, inhibit cytokine release. These receptors bind with MHC class I molecules on the surface of healthy cells which inhibits the release of cytokines. In virally infected or cancerous cells, class I MHC molecules are not expressed, inducing the release of cytokine. An activation signal is known to exist, however the mechanics of this signal are not very well understood.
Uniprot ID:	Q61970
NCBI:	10090
Host / Isotype:	Mouse / IgG
Clone:	1C10
Immunogen:	Hybridoma produced by the fusion of splenocytes from BALB/c mice immunized (BALB/c X C57BL/6)F1 (CbyB6F1) lymphokine-activated killer (LAK) cells and mouse myeloma cell line.
Format:	State: Liquid purified IgG fraction. Buffer System: PBS containing 0.08% Sodium Azide as preservative.
Applications:	Western Blot (1-5 µg/ml). Immunoprecipitation. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recats with NKR-P1 receptors and induces release of cytokine in SJL/J NK cells. (Ref.1) Species: Mouse. Other species not tested.
Storage:	Store the antibody at -20°C. Avoid repeated freezing and thawing. Shelf life: One year from despatch.
General Readings:	1. Kung SK, Su RC, Shannon J, Miller RG. The NKR-P1B gene product is an inhibitory receptor on SJL/J NK cells. J Immunol. 1999 May 15;162(10):5876-87. PubMed PMID: 10229823. 2. Gardiner, C.M. Natural killer cells. Curr. Biol. 1999, 9, R716.