

Anti-CD112 [Nec1-554-1] Standard Size Ab03744-3.0

Isotype and Format: Mouse IgG2b, Kappa

Clone Number: Nec1-554-1

Alternative Name(s) of Target: Nectin-2; NECTIN2; HVEB; PRR2; PVRL2; Herpes virus entry mediator B; Herpesvirus entry mediator B; Nectin cell adhesion molecule 2; Poliovirus receptor-related protein 2

UniProt Accession Number of Target Protein: Q92692

Published Application(s): functional assay, inhibit, ELISA, FC

Published Species Reactivity: Human

Immunogen: The original antibody was generated by immunizing KM mice with an emulsion prepared by mixing the Nectin-2ED-Fc protein and Nectin-2ED-FLAG protein.

Specificity: This antibody binds an epitope between amino acids 175-240 of the human CD112 (Nectin-2). It cross reacts with cynomolgus monkey CD112. It is also capable of binding AN77-78PD, G113R and H128R mutants of human CD112. Nectin-2 acts as a modulator of T-cell signaling. It can be either a costimulator of T-cell function, or a coinhibitor, depending on the receptor it binds to. Upon binding to CD226, stimulates T-cell proliferation and cytokine production, including that of IL2, IL5, IL10, IL13, and IFNG. Upon interaction with PVRIG, inhibits T-cell proliferation.

Application Notes: The binding of this antibody to CD112 or Nectin-2 expressed on the surface of CHO cells was determined using whole cell ELISA. The cross reactivity of this antibody for cynomolgus monkey CD112 expressed on CHO-K1 cells was checked using flow cytometry. This antibody shows good ADCC activity against OV-90, MDA-MB-231, NCI-H1299, Du145 and U937 cell lines. The in-vivo anti-tumor activity of this antibody was tested in nude mice models transplanted with OV-90 human ovarian cancer cell line. This antibody showed T/C (Treatment/Control) value of 34%. The in-vivo activity was also checked in SCID mouse models for treating lung metastasis with MDA-MB-231 human breast cancer cell line (US20100008928).

Antibody First Published in: [PMID:](#)

Note on publication:

Product Form

Size: 100 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.