

NKG7 Antibody



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Endogenous	7-17	Rabbit	#Q16617	4818

Product Usage Information

Application

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. *Do not aliquot the antibody.*

Specificity/Sensitivity

NKG7 Antibody recognizes endogenous levels of total NKG7 protein. This antibody may recognize multiple predicted isoforms of NKG7 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly161 of human NKG7 protein. Antibodies are purified by peptide affinity chromatography.

Background

Natural killer cell granule protein 7 (NKG7, also known as GMP-17 and GIG-I) is a novel type 1 integral membrane protein expressed at high levels in lymphocytes, including natural killer (NK) cells, γδ T cells, a subset of αβ T cells, lymphokine-activated killer (LAK) cells (1), and activated T regulatory cells (2). NKG7 expression can be induced in neutrophils following GM-CSF treatment (3). NKG7 protein is localized to the membranes of cytotoxic granules. Following target cell-induced NK cell degranulation, NKG7 translocates from granules to the plasma membrane (4). Studies have also shown that NKG7 is significantly upregulated in allograft rejection patients (5-8).

Background References

1. Turman, M.A. et al. (1993) *Hum Immunol* 36, 34-40.
2. Sugimoto, N. et al. (2006) *Int Immunol* 18, 1197-209.
3. Shimane, M. et al. (1994) *Biochem Biophys Res Commun* 199, 26-32.
4. Medley, Q.G. et al. (1996) *Proc Natl Acad Sci U S A* 93, 685-9.
5. Sacreas, A. et al. (2018) *PLoS One* 13, e0205107.
6. Sigdel, T.K. et al. (2015) *PLoS One* 10, e0138133.
7. Ashokkumar, C. et al. (2011) *Am J Pathol* 179, 1929-38.
8. Meehan, S.M. et al. (1997) *Lab Invest* 76, 639-49.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human

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