

CD99 Antibody



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H	Endogenous	30	Rabbit	#P14209	4267

Product Usage Information

Application

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

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

CD99 Antibody recognizes endogenous levels of total CD99 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln71 of human CD99 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

CD99 is a transmembrane protein involved in many cellular functions, including cell adhesion and migration, endocytosis and exocytosis, and intracellular protein trafficking. It is highly expressed in all leukocyte lineages, Sertoli cells, granulosa cells, and pancreatic islet cells (1,2). Due to alternative splicing, there are two isoforms of CD99 that differ at the carboxy terminus. CD99 Type I (CD99wt) is the full-length form containing 185 amino acids and CD99 Type II (CD99sh) contains 161 amino acids. Their expression is differentially regulated and they may have opposite functions in different contexts (3,4). CD99 is expressed in many types of tumors and has been used for differential diagnosis of conventional Ewing sarcoma. It has been actively pursued as a therapeutic target (5,6). On the other hand, CD99 may also play a tumor suppressor role in other tumors, such as Hodgkin's lymphomas, osteosarcomas, and pancreatic tumors (6,7).

Background References

1. Muller, W.A. (2016) *Immunol Rev* 273, 61-75.
2. Pasello, M. et al. (2018) *J Cell Commun Signal* 12, 55-68.
3. Alberti, I. et al. (2002) *FASEB J* 16, 1946-8.
4. Scotlandi, K. et al. (2007) *Oncogene* 26, 6604-18.
5. Scotlandi, K. (2006) *Adv Exp Med Biol* 587, 13-22.
6. Manara, M.C. et al. (2018) *Genes (Basel)* 9, 159.
7. Manara, M.C. et al. (2006) *Mol Biol Cell* 17, 1910-21.

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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human

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