

Anti-Indolicidin [V2D2] Standard Size Ab03998-1.1

Isotype and Format: Mouse IgG1, Kappa

Clone Number: V2D2

Alternative Name(s) of Target: CATHL4; Cathelicidin-4; Antimicrobial peptide; antibiotic

UniProt Accession Number of Target Protein: P33046

Published Application(s): Block, ELISA

Published Species Reactivity: Cow

Immunogen: The original antibody was generated by immunizing 8–10-week-old BALB/c mice with indolicidin conjugated to diphtheria toxoid.

Specificity: This antibody binds indolicidin (ILPWKWPWWPWRR), which is a potent antimicrobial peptide isolated from the neutrophil blood cells of cow. Indolicidin is a tryptophan-rich cationic broad spectrum antibiotic that can neutralize bacterial lipopolysaccharides and has immunomodulatory effects. Its antibacterial activity is realized inside the phagolysosomes of host neutrophils, outside of which it exhibits cytotoxicity. Some reports have demonstrated its interaction with various molecules like DNA, topoisomerase I, calmodulin, and ATP.

Application Notes: The binding characterization of this antibody was done using ELISA. It was reported that this antibody could bind indolicidin with a binding affinity of $K_D = 56$ nM and could block the antibacterial action of the peptide (PMID: 20837490).

Antibody First Published in: Lomash et al. An antibody as surrogate receptor reveals determinants of activity of an innate immune peptide antibiotic. J Biol Chem. 2010 Nov 12;285(46):35750-8. [PMID:20837490](#)

Note on publication: Describes the generation of this antibody as a surrogate receptor for indolicidin to identify a motif that contained almost the entire antibiotic activity of native indolicidin.

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.