



Research Use Only Data Sheet

Monoclonal Antibody to Inflammatory Inducing Lactoferrin-peptide

Clone K2-1B12

Cat. No. MPR-1001

DESCRIPTION: Monoclonal antibody K2-1B12, anti inflammatory inducing lactoferrin-peptide is highly specific for inflammatory inducing lactoferrin-peptide is derived by enzymatic cleavage of lactoferrin. Cleavage by elastase and/or proteinase 3 (PR3) of human lactoferrin leads to release of inflammatory inducing lactoferrin-peptide (amino acid 295-306). Inflammatory inducing lactoferrin-peptide could detect the saliva of periodontitis patients and milk of mastitis. Moreover, this peptide activates the NF κ B and induce the pro-inflammatory cytokines and chemokines.

Ig ISOTYPE: Mouse IgG2a

SPECIES REACTIVITY: Human and Bovine. Others not tested.

PRODUCT: Each vial contains 100 μ g IgG in 100 μ l 0.02M Tris-HCl (pH7.2), containing 0.02% sodium azide and 0.1% bovine serum albumin.

USE: For Western blotting dilutions to be used depend on detection system. Sample is pretreated by immuno-precipitation and/or affinity chromatography with anti-lactoferrin (clone 4f-11. Cat. No. MPR1001). It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:500.

STORAGE AND STABILITY: Product should be stored at 4 °C. Under recommended storage conditions, product is stable for one year.

PRECAUTIONS: For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the users to comply with all local/state and Federal rules in the use of this product. MPR is not responsible for any patent infringements that might result with the use of or derivation of this product.

REFERENCES:

1. Komine K, et. al., J. Vet. Med. Sci. 2005. 67:667-677.
 2. Komine Y, et. al., J. Vet. Med. Sci. 2006. 68:715-723.
 3. Komine K, et. al., Mol. Immunol. 2007. 44:1498-1508.
- JP patent 4029988. Published application: WO02005/049650

Product: Multifunctional Protein Research Inst.

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