ImmunoBioScience Corp. (IBSC) *DATA SHEET*

Levamisole, Alkaline Phosphatase Endogenous Blocking Reagent (15X)

**Catalog number:** AR-6587-01 15 ml

AR-6587-02 50 ml

**Description**: Endogenous Alkaline Phosphatase (AP) is present in number of cells and tissues including epithelium of the bladder, the lamina propia of ovary, kidney, salivary glands (1), neutrophilic segmented cells, neutrophilic band cells, neutrophilic metamyelocytes, and may also be present in leukemic cells of chronic and acute granulocytes leukemia, and some neutrophilic leukemoid reactions (2). AP is also found in brush borders of epithelial cells of small intestine (3) and placenta (4). Elias (5) has shown that endogenous AP can be inhibited by Levamisole without significantly reducing specific staining of antigenic sites. Levamisole is inhibitor for endogenous AP in frozen and formalin-fixed paraffin-embedded (FFPE) tissue sections. **Intestinal and placental AP is not inhibited by Levamisole.**

**Intended Use**: Immunohistochemistry (IHC) and Immunocytchemistry (ICC) on

cell specially smears of peripheral blood, frozen tissues and FFPE sections. This inhibitor has been tested in AP based IHC with Fast Red, BCIP/NBT, BCIP/INT and our Fast Red Super™.

**Procedure:** Levamisole is supplied as 15X solution in a dropper vial. After AP reaction Levamisole is added to chromogen system as follows:

1. Chromogen buffer and substrates for AP are available as ready-to-use (one component), two components or three components. Mix according to manufacture instructions.
2. To one ml of this ready to use buffer, chromogen and substrate mixture, add two drop of 15X concentrated Levamisole, mix well for few seconds.
3. Add this chromogen mixture to your specimen incubate according to manufactures instructions.

These are guide lines, the optimum incubation times for these reagents and reactions should be determined by the individual lab.

**References:**

1. Ponder, BA, Wilkinson, M. J. Histochem Cytochem. 29(8)981, 1981
2. Seiverd CE Hematology for Medical technologies, Seiverd CE editor, Philadelphia: Lea and Febiger, 1972
3. Uchida, T etal Advances in Immunohistochemistry, De Lellis,RA editor, Masson Publishing, 185, 1985
4. Groote, GD etal Clin. Chem. 29(1), 115,1983
5. Elias JM, Immunohistochemical methods: endogenous AP activity. Immunopathology A practical approach to diagnostic. Chicago: Ascp press, 49, 1990

**Limitation and warranty:** Our warranty is limited to the actual price paid for the product. We are not liable for any property damage, personnel injury, time, effort or economic loss due to our product.

**MSDS:** Avoid skin and eye contact with all laboratory products. Use appropriate lab. gear, lab coat , gloves and safety glasses. Do not ingest any lab. products. This product is not approved for administration in human or animals.

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**For research use only; not for use in diagnostic procedures. FOR IN VITRO LABORATORY USE ONLY**

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