ImmunoBioScience Corp. (IBSC) *DATA SHEET*

BCIP /NBT (5-Bromo-4-chloro-3-indolyl phosphate/Nitroblue tetrazolium)

**Catalog number:** AR-8212-01 50 ml Ready-to-use

AR-8212-02 100 ml Ready-to-use

**Description**: Our unique BCIP/NBT is an excellent one component chromogen substrate system that is used in Immunohistochemistry (IHC), Immunocytochemistry (ICC), western blot (WB) and *in* *situ* hybridization with alkaline phosphatase (alk phos). Alkaline phosphatase catalyzes the hydrolysis of a variety of phosphate containing substances in the alkaline pH range. This chromogen system gives purple blue color; is compatible with nuclear fast red (AR-6524) counterstain and can be mounted with aqueous mounting medium or our ImmunoHistoMount (AR-6503) This chromogen can also be counterstained with our Red counter stain (AR-6523) and mounted with mounting medium Immuno *In Situ* Mount (AR-6507)

**Intended Use**: Immunohistochemistry (IHC), Immunocytchemistry (ICC), western blots and *in situ* hybridization. This solution is ready to use and does not require any preparation.

**Storage: 2-8°C**

**Application:** IHC, ICC and *in situ* hybridization

1. After the alkaline phosphatase reaction, wash slide with high pH buffer (~Tris/HCl 9.5).
2. Add few drops of ready to use BCIP/NBT reagent, incubate at RT or 37ºC for 5-15 minutes.
3. Wash 2-5X with buffer, followed by rinsing with distilled/deionized water.
4. Add counterstain compatible with this chromogen (see description above)
5. Wash with tap water, followed by rinsing with distilled/deionized water.
6. Mount with aqueous mounting medium (see description above).

**Western Blot**: After alk phos. reaction, wash blots with high pH buffer (Tris ~9.5) containing 0.1 % Tween 20. Incubate membrane for 5-10 minutes or till proper purple blue color bands are observed, protect membrane from light. Wash membrane thoroughly with buffer containing detergent, followed by rinsing with distilled or deionized water.

*The optimum time of incubation for BCIP/NBT should be determined by the individual lab.*

**Phosphate buffer is a strong inhibitor of alkaline phosphatase and should not be used.**

**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:** This product contains 0.05 % sodium azide as a preservative, appropriate care should be taken in handling. National Institute of Occupational Safety and Health has warning that sodium azide can react with lead, copper, brass or solder in the plumbing system and forms hydrazoic acid in acidic condition. Discard with copious amount of water. Avoid skin and eye contact with all laboratory products. Use appropriate lab. gear, lab coat , gloves and safety glasses. Do not ingest any labproducts. This product is not approved for administration in human or animals.

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

**“*In vitro* laboratory products for research”**

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