IHCAb™ Galectin 3 mouse mAb (BGT-GAL3)

Cat #: B-IMW6764

Size: 100 µL

Storage: Store at -20°C. Avoid repeated freeze / thaw cycles.

Background

This gene encodes a member of the galectin family of carbohydrate binding proteins. Members of this protein family have an affinity for beta-galactosides. The encoded protein is characterized by an N-terminal proline-rich tandem repeat domain and a single C-terminal carbohydrate recognition domain. This protein can self-associate through the N-terminal domain allowing it to bind to multivalent saccharide ligands. This protein localizes to the extracellular matrix, the cytoplasm and the nucleus. This protein plays a role in numerous cellular functions including apoptosis, innate immunity, cell adhesion and T-cell regulation. The protein exhibits antimicrobial activity against bacteria and fungi. Alternate splicing results in multiple transcript variants.

Product Information

Applications/Dilution: IHC-p 1:50-500 WB 1:1000-2000

Isotype/Source: Mouse, Monoclonal/IgG2b, Kappa

Specificity: This antibody detects endogenous levels of human Galectin 3, TRIS-EDTA of pH9.0 was used for Heat-induced epitope retrieval (HIER)

Subcellular Location: Cytoplasm . Nucleus. Secreted . Secreted by a non-classical secretory pathway and associates with the cell surface. Can be secreted; the secretion is dependent on protein unfolding and facilitated by the cargo receptor TMED10; it results in protein translocation from the cytoplasm into the ERGIC (endoplasmic reticulum-Golgi intermediate compartment) followed by vesicle entry and secretion (PubMed:32272059)

Expression: A major expression is found in the colonic epithelium. It is also abundant in the activated macrophages. Expressed in fetal membranes.

Formulation: Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Storage: Store at -15°C to -25°C

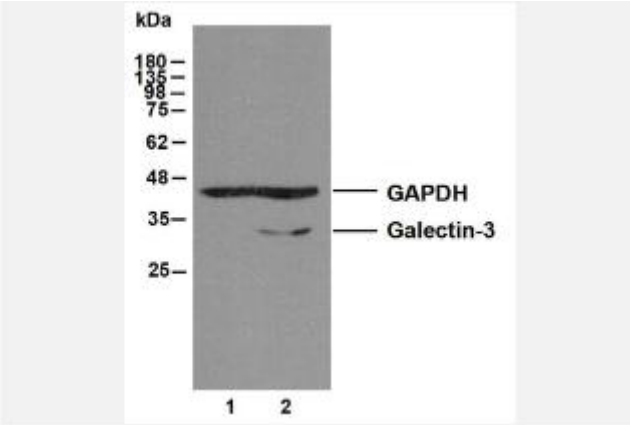

Fig.1. Various whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-Galectin-3 and anti-GAPDH antibody. The HRP-conjugated anti-Mouse IgG antibody was used to detect the antibody. Lane 1 : Galectin-3 knockout Hela cell lysate Lane 2 : Wide type Hela cell lysate Predicted band size: 30 kDa Observed band size: 30 kDa

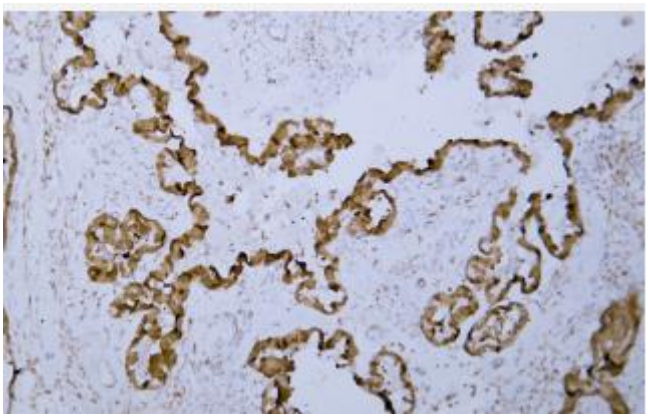

Fig.2. Human ovarian carcinoma tissue was stained with Anti-Galectin 3 Antibody

Note:

The product listed herein is for research use only and is not intended for use in human or clinical diagnosis.