

Code No. 10383

**Anti-Human  
Intelectin-1 (3G9) Mouse IgG MoAb**

Volume : 100 µg

**Introduction** : Intelectin-1 is a secretory animal lectin that binds to galactofuranose. Human intelectin-1 is a glycoprotein mainly secreted from intestinal goblet cells. It was reported that the protein was related to inflammation or parasite infection. Recently, it was found that intelectin-1 was secreted from epithelioid-type malignant pleural mesothelioma into pleural effusion. Human intelectin-1 is not expressed on normal mesothelial cells and most cancer cells including lung adenocarcinoma. Therefore, this antibody can be a very useful tool for immunohistochemical research of epithelioid-type malignant pleural mesothelioma.

**Antigen** : Recombinant human Intelectin-1

**Source** : Mouse-Mouse hybridoma

**Clone** : 3G9                      **Subclass** : IgG2a

**Purification** : Affinity purified with antigen peptide

**Form** : Lyophilized product from PBS containing 1 % BSA and 0.05 % NaN<sub>3</sub>

**How to use** : 1.0 mL deionized water will be added to the product, then its concentration comes to 100 µg/mL

**Stability** : Lyophilized product, 5 years at 2 - 8 °C  
: Solution, 2 years at -20 °C

**Application** : This antibody can be used for immunohistochemistry with formalin fixed paraffin embedded tissues. An autoclave pretreatment (for 5 minutes at 121 °C) is recommended. The optimal concentration is 0.5 - 1 µg/mL, however, the concentration should be optimized by each laboratory.  
: This antibody can be used for western blotting in concentration of 1 - 5 µg/mL

**Specificity** : Not cross-react with mouse, rat and bovine Intelectin.  
Not cross-react with human Intelectin-2

**Reference** : 1. Tsuji S, Tsuura Y, Morohoshi T, Shinohara T, Oshita F, Yamada K, Kameda Y, Ohtsu T, Nakamura Y, Miyagi Y. Secretion of intelectin-1 from malignant pleural mesothelioma into pleural effusion. *Br J Cancer*. 2010 Aug 10;103(4):517-23.  
2. Tsuji S, Yamashita M, Hoffman DR, Nishiyama A, Shinohara T, Ohtsu T, Shibata Y. Capture of heat-killed Mycobacterium bovis bacillus Calmette-Guérin by intelectin-1 deposited on cell surfaces. *Glycobiology*. 2009 May;19(5):518-26.  
3. Tsuji S, Yamashita M, Nishiyama A, Shinohara T, Li Z, Myrvik QN, Hoffman DR, Henriksen RA, Shibata Y. Differential structure and activity between human and mouse intelectin-1: human intelectin-1 is a disulfide-linked trimer, whereas mouse homologue is a monomer. *Glycobiology*. 2007 Oct;17(10):1045-51.  
4. Tsuji S, Uehori J, Matsumoto M, Suzuki Y, Matsuhisa A, Toyoshima K, Seya T. Human intelectin is a novel soluble lectin that recognizes galactofuranose in carbohydrate chains of bacterial cell wall. *J Biol Chem*. 2001 Jun 29;276(26):23456-63.

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