



Mucosal immunology



bringing innate immunity to the **next level**

Available in Canada from...

MJS
BioLynx
INC.

1-888-593-5969 • www.biolynx.ca • tech@biolynx.ca



Mucosal immunology

Mucosal immunology is the study of immune responses occurring in any surface that is in contact with the external environment. The intestines, respiratory tract and the urogenital tract all belong to the mucosal barrier. The mucosal immune system has three main functions:

- It serves as the body's first line of defense against pathogens.
- It prevents systemic immune responses to commensal bacteria and food antigens.
- It regulates appropriate immune responses to pathogens on a daily basis.

Given that the mucosa are the primary contact point between a host and its environment, mucosa-associated lymphoid tissue (MALT) and a large part of the lymph nodes can be found near these epithelial barriers. Lymphoid tissue is mainly populated by lymphocytes such as T cells and B cells, but also macrophages and plasma cells are encountered here.

ELISA kits

Alpha-1-antitrypsin, Proteinase 3, Azurocidin, Calprotectin, I-FABP and EndoCab®: are only a few of the available ELISA kits which can be used in research to mucosal immunology. The ELISA kits are not only for human samples: we offer ELISA kits for mouse (LBP, MPO, S100A9, SAP), rat (MPO) and various species (LBP) as well.

Antibodies

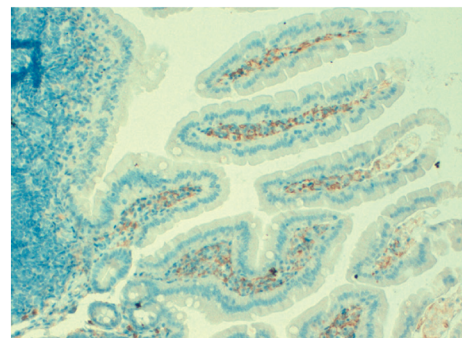
Immunohistochemistry, immuno fluorescence, functional studies, flow cytometry, immuno assay, western blot and immuno precipitation: we offer antibodies for several applications. Highlighted antibodies in mucosal immunology are to mouse macrophages F4/80, clone BM8 (cat# HM1066), human TNF-RII, clone MR2-1 (cat# HM2007), rat MPO, clone 2D4 (cat# HM3030) and human calprotectin, clone 27E10 (cat# HM2156).

Proteins

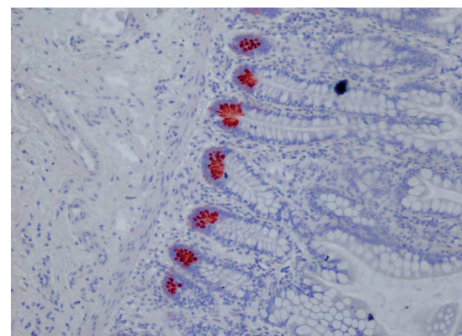
Looking for proteins for your research? We offer several natural or recombinant proteins for different species. A few examples are human calprotectin, mouse CRAMP, human LL-37, human Cathepsin G, rat IFN-gamma and mouse E-FABP.

Looking for specific biomarkers?

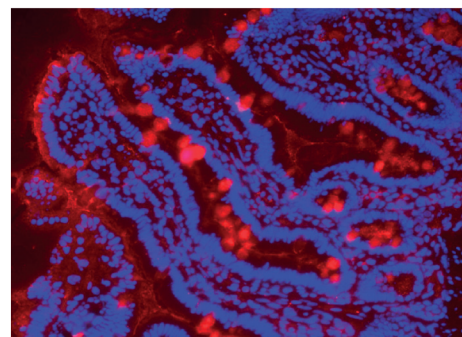
Have a look at our website or contact us or your distributor to find out which products are available in the field of mucosal immunology. Our products are available in custom formulations as well as bulk quantities: do not hesitate to ask us about the possibilities.



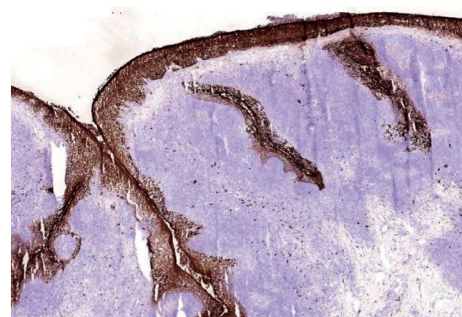
Macrophages in mouse colon. Staining of paraffin section with clone BM8 (Cat. # HM1066).



Defensin 5 in human ileum tissue. Staining of paraffin section with clone 8C8 (Cat. # HM2228).



ZO-1 in human colon. Immunofluorescence with polyclonal antibody (Cat. # HP9056).



IHC-F: Staining of squamous epithelia of frozen tonsil section with calprotectin antibody HM2156 (Dilution used was 1:100).



1-888-593-5969 • www.biolyx.ca • tech@biolyx.ca