

## DESCRIPTION

|                           |   |
|---------------------------|---|
| <b>Species Reactivity</b> | Human   |
| <b>Specificity</b>        | Detects human TLR5 in direct ELISAs and Western blots. In Western blots, less than 5% cross-reactivity with recombinant human (rh) TLR1, 2, 3, 4, 7, 8, recombinant mouse TLR5, 6, or rhTIRAP is observed.    |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>1</sub> Clone # 624915  |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human TLR5<br>Ile21-Phe115<br>Accession # O60602  |
| <b>Formulation</b>        | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.<br>*Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS. |

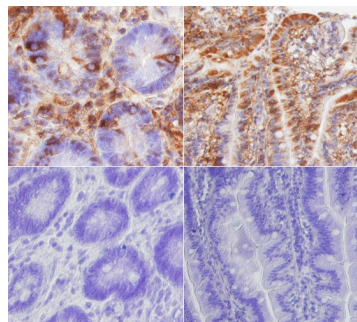
## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

|                             | <b>Recommended Concentration</b>   | <b>Sample</b> |
|-----------------------------|--|---------------|
| <b>Flow Cytometry</b>       | 0.25 µg/10 <sup>6</sup> cells  | See Below     |
| <b>Immunohistochemistry</b> | 8-25 µg/mL   | See Below     |
| <b>CyTOF-ready</b>          | Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation. |               |

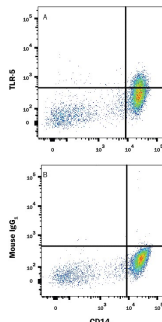
## DATA

### Immunohistochemistry



**TLR5 in Human Intestine.** TLR5 was detected in immersion fixed paraffin-embedded sections of human intestine using Mouse Anti-Human TLR5 Monoclonal Antibody (Catalog # MAB6704) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Lower panels show a lack of labeling when primary antibodies are omitted and tissue is stained only with secondary antibody followed by incubation with detection reagents. Specific staining was localized to cell surfaces and cytoplasm. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

### Flow Cytometry



**Detection of TLR5 in Human Human Peripheral Blood Monocytes by Flow Cytometry.** Human Human Peripheral Blood Monocytes were stained with (A) Mouse Anti-Human TLR5 Monoclonal Antibody (Catalog # MAB6704) or (B) isotype control antibody (Catalog # MAB002), followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B) and Mouse anti-Human CD14 PE-conjugated Monoclonal Antibody (Catalog # FAB3832P). View our protocol for [Staining Membrane-associated Proteins](#).

## PREPARATION AND STORAGE

|                                |  |
|--------------------------------|--|
| <b>Reconstitution</b>          | Sterile PBS to a final concentration of 0.5 mg/mL.   |
| <b>Shipping</b>                | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.<br>*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C   |
| <b>Stability &amp; Storage</b> | <b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul> |

## BACKGROUND

TLR5 is an ~100 kDa type I transmembrane glycoprotein of the Toll-like receptor family. It is expressed on mucosal epithelia in the gastrointestinal tract, airways, and other areas of potential bacterial contact and recognizes bacterial flagellin. Expression is also reported on monocytes, immature dendritic cells, and CD4<sup>+</sup> T lymphocytes. The region of human TLR5 used as an immunogen includes the first 2 of 16 leucine-rich repeats and shares 72% amino acid identity with mouse and rat TLR5. This region is outside of the flagellin binding region. Flagellin engagement induces dimerization and intracellular signaling via MyD88.