

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Mouse/Rat                                                                                                                                                                                                                                                                   |
| <b>Specificity</b>        | Detects mouse TLR7 in direct ELISAs and mouse and rat TLR7 in Western blots. In direct ELISAs, no cross-reactivity with recombinant human TLR7 or recombinant mouse TLR8 is observed.                                                                                       |
| <b>Source</b>             | Monoclonal Rat IgG <sub>2A</sub> Clone # 726606                                                                                                                                                                                                                             |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant mouse TLR7<br>Asn275-Phe444<br>Accession # P58681                                                                                                                                                                                       |
| <b>Conjugate</b>          | Alexa Fluor 488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm                                                                                                                                                                                         |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

## 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.

**Western Blot** Optimal dilution of this antibody should be experimentally determined.

## PREPARATION AND STORAGE

**Shipping** The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

**Stability & Storage** Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

## BACKGROUND

TLR7 (Toll-like receptor 7) is an approximately 130 kDa type I transmembrane glycoprotein and member of the Toll-like receptor family. Mouse TLR7 cDNA encodes 1050 amino acids (aa) including a 26 aa signal sequence and a 811 aa extracellular domain (ECD) with 28 leucine-rich repeats (LRR). Within the region used as an immunogen (LRR 10-16), mouse TLR7 shares 73% and 88% aa identity with human and rat TLR7, respectively. TLR7 mRNA is detected in brain, placenta, spleen, stomach, small intestine, lung, and in plasmacytoid dendritic cells, B cells and eosinophils. TLR7 participates in the innate immune response to microbial agents by recognizing viral and nonviral single stranded RNA.

## PRODUCT SPECIFIC NOTICES

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