Mouse/Rat TLR7 Alexa Fluor® 594-conjugated Antibody

Monoclonal Rat IgG_{2A} Clone # 726606

Catalog Number: FAB7156T

100 µg

DESCRIPTION

Species Reactivity	Mouse/Rat
Specificity	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.
Source	Monoclonal Rat IgG_{2A} Clone # 726606
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant mouse TLR7 Asn275-Phe444 Accession # P58681
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.

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