

DESCRIPTION

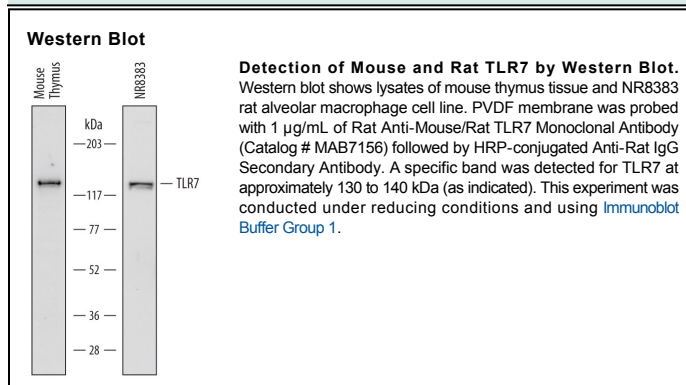
Species Reactivity	Mouse/Rat
Specificity	Detects mouse TLR7 in direct ELISAs and mouse and rat TLR7 in Western blots. In direct ELISAs, no cross-reactivity with recombinant human TLR7 or recombinant mouse TLR8 is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 726606
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse TLR7 Asn275-Phe444 Accession # P58681
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied 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.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA



PREPARATION AND STORAGE

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

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.