Anti-TLR7 Antibody [JA93-11]

ET1704-11

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB
Molecular Wt:	Predicted band size: 121 kDa
Clone number:	JA93-11

Description: The Toll-like Receptors (TLR) are a family of human receptors that share homology with the Drosophila Toll Receptors, which are involved in mediating dorsoventral polarization in developing Drosophila embryos and participate in host immunity. The TLR family members are characterized by a highly conserved Toll homology (TH) domain, which is essential for Toll-induced signal transductions. TLRs are type I transmembrane receptors that contain an extracellular domain consisting of several leucine-rich regions and a single cytoplasmic Toll/IL-1R like domain. Three TLR family members, TLR7, TLR8 and TLR9, belong to a subfamily of TLRs which are differentially expressed. TLR7 is expressed in lung, placenta and spleen. TLR8 is expressed in lung and peripheral blood leukocytes, and TLR9 is predominantly expressed in spleen, lymph nodes, bone marrow and peripheral blood leukocytes. TLR7, TLR8 and TLR9 stimulate the NFκB signaling pathway, suggesting that they play a role in the immune response.

Immunogen: Synthetic peptide within Human TLR7 aa 1000-1049 / 1049.

Positive control: Jurkat cell lysate, Daudi cell lysate.

Subcellular location: Endoplasmic reticulum membrane, Endosome, Lysosome, Cytoplasmic vesicle, phagosome.

Database links: SwissProt: Q9NYK1 Human

Recommended Dilutions:

WB	1:1,000

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4℃. Store at +4℃ short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20℃ long term.

Purity: Protein A affinity purified.

Images

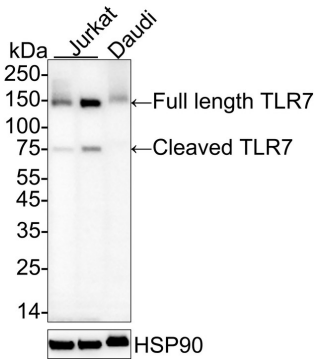

Fig1: Western blot analysis of TLR7 on different lysates with Rabbit anti-TLR7 antibody (ET1704-11) at 1/1,000 dilution.

Lane 1: Jurkat cell lysate
Lane 2: Jurkat cell lysate (hot lysis)
Lane 3: Daudi cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 121 kDa
Observed band size: 140/70 kDa

Exposure time: 3 minutes; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET1704-11) at 1/1,000 dilution was used in 5% NFDM/TBST at 4℃ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Background References

1. Tao Y et al. The role of endogenous IFN- in the regulation of Th17 responses in patients with relapsing-remitting multiple sclerosis. J Immunol 192:5610-7 (2014).
2. Chen GY et al. Simultaneous induction of autophagy and toll-like receptor signaling pathways by graphene oxide. Biomaterials 33:6559-69 (2012).