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10-3017: Monoclonal Antibody to Mouse TLR3 (Clone: ABM24E5)

Clonality :	Monoclonal
Clone Name :	ABM24E5
Application :	IHC,FACS,WB
Reactivity :	Mouse,Human
Gene :	Tlr3
Gene ID :	142980
Uniprot ID :	Q99MB1
Format :	Purified
Alternative Name :	Tlr3
Isotype :	Rat IgG2b Kappa
Immunogen Information :	A partial length recombinant mTLR3 protein (amino acids 180-385) was used as the immunogen for this antibody.

Description

Mouse Toll-like receptor 3 (mTLR3) belongs to a family of evolutionary conserved innate immune recognition molecules and recognizes double-stranded RNA, a molecular pattern associated with viral infections. It has seven exons. mTlr3 show high homology to hTLR3 in their predicted cDNA and protein sequences. The intracellular region of mTlr3 has remarkable homology with the same region of others mTlrs. mTlr3 mRNA is ubiquitously expressed in tissues, being expressed highest in spleen, kidney and lung. Its activation by the synthetic ligand polyinosine:polycytidylic acid (poly I:C) or by mRNA rapidly causes growth cone collapse and irreversibly inhibits neurite extension independent of NF-kappaB. The high levels of mTlr3 expression in Mz B cells perhaps contribute to their ability to clear antigen from the blood.

Product Info

Amount :	25 µg / 100 µg
Purification :	Protein G Chromatography
Content :	25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Western blot analysis: 2-4 µg/ml, FACS analysis: 0.5 µg/10^6 cells, Immunohistochemical analysis: 10 µg/ml

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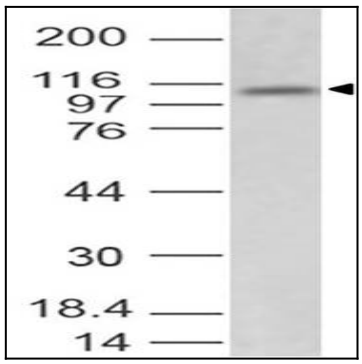


Fig-1: Western blot analysis of mTLR3. Anti- mTLR3 antibody (Clone: ABM24E5) was used at 2 µg/ml on mouse brain lysate.

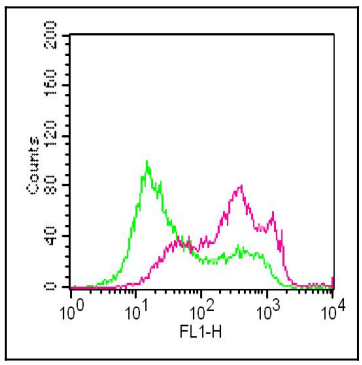


Fig-2: Intracellular flow analysis of mTLR3 in m Splenocytes using 0.5 µg/10^6 cells of mTLR3 antibody (Clone: ABM24E5). Green represents isotype control; red represents anti-mTLR3 antibody. Goat anti-Rat FITC conjugate was used as secondary antibody.

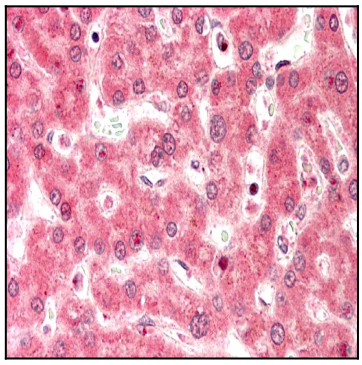


Fig-3: Immunohistochemical analysis of mTLR3 in human Liver tissue using mTLR3 antibody (Clone:ABM24E5) at 10 µg/ml.

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