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10-3029: Monoclonal Antibody to Mouse TLR9 (Clone: ABM4D70)

Clonality :	Monoclonal
Clone Name :	ABM4D70
Application :	FACS,WB
Reactivity :	Mouse
Gene :	Tlr9
Gene ID :	81897
Uniprot ID :	Q9EQU3
Format :	Purified
Alternative Name :	Tlr9
Isotype :	Rat IgG2a Kappa
Immunogen Information :	A partial length recombinant mTLR9 protein (amino acids 602-860) was used as the immunogen for this antibody.

Description

Mouse Toll-like receptor 9 (mTLR9) is an innate immune sensor for microbial DNA that erroneously responds to self DNA in autoimmune disease. TLR9 is normally expressed in endosomes/lysosomes where it is activated by pathogen-derived DNA. It has modulatory effect on the mucosal immune system, influence susceptibility to allergic sensitization to foods (22718261). TLR9 recognizes unmethylated CpG-containing DNA commonly found in bacteria. TLR9 signaling plays an important role in the development of robust protective immunity, proper recruitment and function of effector cells (lymphocytes and macrophages), and, ultimately, effective cryptococcal clearance from the infected lungs (20581055). It is involved in the pathogenesis of cardiovascular diseases, such as hypertension and heart failure.

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: 0.5-1 µg/10^6 cells

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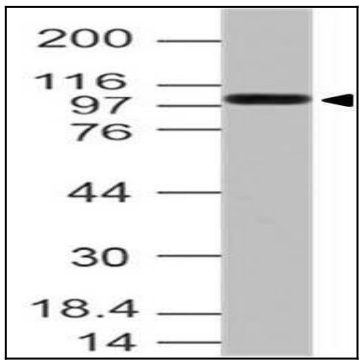

Fig-1: Western blot analysis of mTLR9. Anti-mTLR9 antibody (Clone: ABM4D70) was tested at 2 µg/ml on mouse Small Intestine lysate.

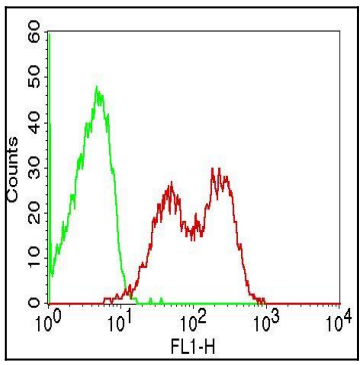

Fig-2: Intracellular flow analysis of mTLR9 in mouse splenocytes using 0.5 µg/10^6 cells of mTLR9 antibody (Clone: ABM4D70). Green represents isotype control; red represents anti-mTLR9 antibody. Goat anti-Rat FITC conjugate was used as secondary.

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