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10-3029-NALE: NALE™ Monoclonal Antibody to Mouse TLR9 (Clone: ABM4D70) (No Azide Low **Endotoxin**)

Clonality: Monoclonal **Clone Name:** ABM4D70 Application: FACS, WB Reactivity: Mouse Gene: Tlr9 Gene ID: 81897 **Uniprot ID:** Q9EQU3

Format: Azide Free, Purified

Alternative Name: Tlr9

Isotype: Rat IgG2a Kappa

A partial length recombinant mTLR9 protein (amino acids 602-860) was used as the Immunogen Information:

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 . 100 µg

Purification: Protein G Chromatography

Content: $25 \mu g$ in $50 \mu l/100 \mu g$ in $200 \mu l$ PBS containing 0.05% BSA.

Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid Storage condition:

repeated freeze and thaw cycles.

Application Note

Western blot analysis: 2-4 μg/ml; FACS: 0.5-1 μg/10⁶ cells



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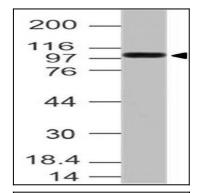


Fig-1: Western blot analysis of mTLR9. Anti-mTLR9 antibody (Clone: ABM4D70) was tested at 2 μ g/ml on mouse Small Intestine lysate.

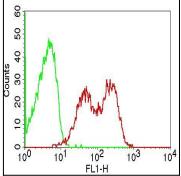


Fig-2: Intracellular flow analysis of mTLR9 in mouse splenocytes using 0.5 μ g/10^6 cells of mTLR9 antibody (Clone: ABM4D70). Green represents isotype control; red represents anti-mTLR9 antibody. Goat anti-Rat FITC conjugate was used as secondary.