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10-3004: Monoclonal Antibody to TLR3 (Clone: ABM15D5)

Clonality: Monoclonal **Clone Name:** ABM15D5 Application: **FACS** Reactivity: Human Gene: TLR3 Gene ID: 7098 **Uniprot ID:** 015455 **Purified** Format: **Alternative Name:** TLR3

Isotype: Mouse IgG1 Kappa

Immunogen Information: A partial length recombinant TLR3 protein (amino acids 25-370) was used as the immunogen

for this antibody.

Description

TLR3 (Toll-Like Receptor-3) acts as a major receptor in virus-mediated innate immune response. This protein belongs to TLR (Toll-like receptor) family which comprises of 10-12 type I integral membrane receptor paralogs that recognize pathogen associated molecular signatures and initiate inflammatory responses. TLR3 consist of pathogen-binding ECD (Ectodomains) and cytoplasmic signaling domains, known as TIR (Toll IL-1 Receptor) domains, joined by a single transmembrane helix. TLR3 specifically senses dsRNA (Double-stranded RNA), an almost universal viral intermediate generated during most viral replications. TLR-3 activation induces multiple cellular antiviral responses, including production of IFN-alpha/beta and upregulation of the anti-HIV cellular factor APOBEC3G. These are a family of pattern recognition receptors expressed by immune cells, including macrophages.

Product Info

Amount : $25 \mu g / 100 \mu g$

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

FACS analysis: 2.0 µg/10^6 cells



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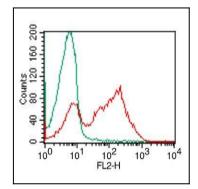


Fig-1: Intracellular flow analysis of TLR3 in human PBMC (lymphocytes) using 2.0 $\mu\text{g}/10\,^{\circ}6$ cells of TLR3antibody (Clone: ABM15D5). Green represents isotype control; red represents anti-TLR3 antibody. Goat anti-mouse PE conjugate was used as secondary.

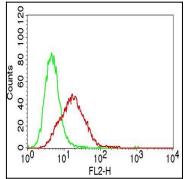


Fig-2: Intracellular flow analysis of TLR3 in human Jurkat using 0.5 μ g/10^6 cells of TLR3 antibody (Clone: ABM15D5). Green represents isotype control; red represents anti-TLR3 antibody. Goat anti-mouse PE conjugate was used as secondary antibody.