

**APC anti-mouse CD283 (TLR3)**

**Catalog # / Size:** 1309530 / 100 µg  
1309525 / 25 µg

**Clone:** 11F8

**Isotype:** Rat IgG2a

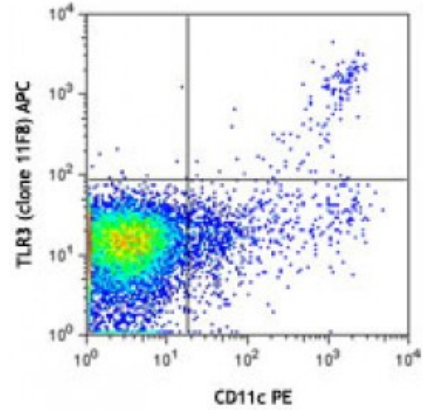
**Immunogen:** Recombinant mouse TLR3 extracellular domain.

**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions. The solution is free of unconjugated APC and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.2



C57BL/6 mouse splenocytes were surface stained with CD4/CD19/Ly-6G/NK1.1 PerCP, CD11c PE and CD8 FITC, followed by intracellular staining with TLR3 (clone 11F8) APC (top) or rat IgG2a, κ APC isotype control (bottom). The data was analyzed by gating

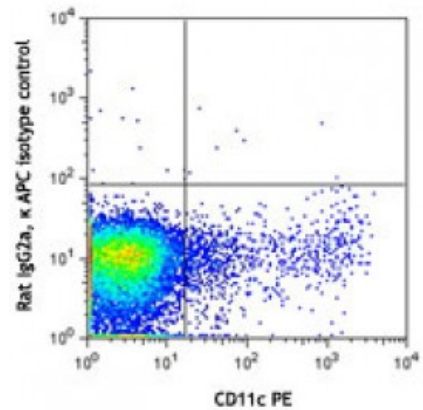
**Applications:**

**Applications:** Flow Cytometry

**Recommended Usage:** Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤0.5 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** Additional reported application (for the relevant formats) include: immunohistochemical staining of frozen tissue<sup>1</sup>.

**Application References:** 1. McCartney S, *et al.* 2009. *J. Exp. Med.* 13:2967. (IHC)



**Description:** Toll-like receptor 3 (TLR3), also known as CD283, is type I transmembrane protein that belongs to the TLR family. It forms a large horseshoe shape that contacts a neighboring horseshoe, forming a dimer of two horseshoes. It is characterized by an extracellular domain with leucine-rich repeats and a cytoplasmic domain with homology to the type I IL-1 receptor. TLR3 is expressed selectively on the cytoplasmic membrane and intracellularly in dendritic cells. It is also highly expressed in the placenta, pancreas, heart, liver, lung, and muscle. TLR3 is a pattern recognition receptor that participates in innate immune response to microbial pathogens by recognizing polyinosine-polycytidylic acid (Poly(I:C)) and

dsRNA. Ligand binding by TLR3 induces receptor dimerization which results in inducing NF- $\kappa$ B activation (via TRIF-linked RIP1/TLR3 interactions) and cytokine production. TLR3 has been shown to interact with a number of proteins including MYD88, TRAF6, TRIAD3, MAP3K7, and TAB2.

**Antigen  
References:**

1. Alexopoulou L, *et al.* 2001. *Nature* 413:732.
2. Doyle SE, *et al.* 2002. *Immunity* 17:251.
3. Meylan E, *et al.* 2004. *Nat Immunol.* 5:503.
4. Muzio M, *et al.* 2000. *J. Immuno*