

TREM2 (YD33097) Rabbit mAb

货号: **AYD16644**

产品信息

反应	Mouse
宿主	Rabbit
克隆性	Monoclonal
预测反应	
应用	ICC/IF FC
推荐浓度	
理论分子量	25kDa
实测分子量	
形式	Liquid
保存条件	Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS with 0.75% BSA,50% glycerol,pH7.3.
偶联物	Unconjugated
阳性对照	
细胞定位	Cell membrane, Secreted
纯化	

抗原信息

抗原信息	
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靶点信息

研究背景	Forms a receptor signaling complex with TYROBP which mediates signaling and cell activation following ligand binding (PubMed:11241283). Acts as a receptor for amyloid-beta protein 42, a cleavage product of the amyloid-beta precursor protein APP, and mediates its uptake and degradation by microglia (PubMed:27477018, PubMed:29518356). Binding to amyloid-beta 42 mediates microglial activation, proliferation, migration, apoptosis and expression of pro-inflammatory cytokines, such as IL6R and CCL3, and the anti-inflammatory cytokine ARG1 (PubMed:27477018, PubMed:29518356). Acts as a receptor for lipoprotein particles such as LDL, VLDL, and HDL and for apolipoproteins such as APOA1, APOA2, APOB, APOE, APOE2, APOE3, APOE4, and CLU and enhances their uptake in microglia (PubMed:27477018). Binds phospholipids (preferably anionic lipids) such as phosphatidylserine, phosphatidylethanolamine, phosphatidylglycerol and sphingomyelin (By similarity). Regulates microglial proliferation by acting as an upstream regulator of the Wnt/beta-catenin signaling cascade (PubMed:28077724). Required for microglial phagocytosis of apoptotic neurons (PubMed:24990881). Also required for microglial activation and phagocytosis of myelin debris after neuronal injury and of neuronal synapses during synapse elimination in the developing brain (PubMed:15728241, PubMed:25631124, PubMed:28592261, PubMed:29752066). Regulates microglial chemotaxis and process outgrowth, and also the microglial response to oxidative stress and lipopolysaccharide (PubMed:28483841, PubMed:29663649, PubMed:29859094, PubMed:30232263). It suppresses PI3K and NF-kappa-B signaling in response to lipopolysaccharide; thus promoting phagocytosis, suppressing pro-inflammatory cytokine and nitric oxide production, inhibiting apoptosis and increasing expression of IL10 and TGFβ (PubMed:29663649). During oxidative stress, it promotes anti-apoptotic NF-kappa-B signaling and ERK signaling (PubMed:28592261). Plays a role in microglial MTOR activation and metabolism (PubMed:28802038). Regulates age-related changes in microglial numbers (PubMed:25631124, PubMed:29752066, PubMed:30548312). Triggers activation of the immune responses in macrophages and dendritic cells. Mediates cytokine-induced formation of multinucleated giant cells which are formed by the fusion of macrophages (PubMed:18957693). In dendritic cells, receptor of SEMA6D with PLEXNA1 as coreceptor and mediates up-regulation of chemokine receptor CCR7 and dendritic cell maturation and survival (PubMed:16715077). Involved in the positive regulation of osteoclast differentiation (PubMed:16418779)
基因ID	3134
基因名	Trem2
Swiss	Q99NH8
别名	TREM2 (YD33097)

产品验证

实验步骤

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