

Anti-IL1 beta/IL1B Antibody Picoband® Fluoro594 Conjugated

Catalog Number: PB9025-Fluoro594

About IL1b

Interleukin-1beta (IL-1beta) is a potent stimulator of bone resorption whose gene is mapped to 2q14, and has been implicated in the pathogenesis of high bone turnover and osteoporosis. IL-1beta, a prominent microglia-derived cytokine, caused oligodendrocyte death in coculture with astrocytes and microglia, but not in pure culture of oligodendrocytes alone. It also can cause nuclear export of a specific NCOR corepressor complex, resulting in derepression of a specific subset of nuclear factor-kappa-B (NFkB)-regulated genes. Furthermore, Microenvironmental IL-1beta and, to a lesser extent, IL-1alpha are required for in vivo angiogenesis and invasiveness of different tumor cells. Additionally, the cooperation of IL-1beta and PDGFB induces contractile-to-synthetic phenotype modulation of human aortic smooth muscle cells in culture. Moreover, the association with disease may be explained by the biologic properties of IL-1beta, which is an important proinflammatory cytokine and a powerful inhibitor of gastric acid secretion.

Overview

Product Name	Anti-IL1 beta/IL1B Antibody Picoband® Fluoro594 Conjugated
Reactive Species	Mouse, Rat
Application	Recommended applications are based on the parent unconjugated antibody (ELISA, IHC, WB). Customers may select suitable applications according to their experimental needs.
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% NaN ₃ .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	Q63264

Technical Details

Immunogen	E.coli-derived rat IL-1 beta recombinant protein (Position: V117-S268). Rat IL-1 beta shares 78% and 90% amino acid (aa) sequences identity with human and mouse IL-1 beta, respectively.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Fluoro594

	Excitation Wavelength: 593 nm Emission Wavelength: 618 nm
Suggested Dilutions	Optimal dilutions should be determined by end users.

12 Publications Citing This Product

1. PubMed ID: -, Microstructural changes and immunohistological analysis of pro-inflammatory cytokines in spleens of lipopolysaccharide-induced rats. Indian Journal Of Animal Research. 2019.(53):239-244
2. PubMed ID: 33683631, Zhao N, Wang T, Peng L, Li Y, Zhao Y, Yu S. Attenuation of Inflammation by DJ-1 May Be a Drug Target for Cerebral Ischemia-Reperfusion Injury. Neurochem Res. 2021 Mar 8. doi: 10.1007/s11064-021-03288-z. Epub ahead of print. PMID: 33683631.
3. PubMed ID: 33130049, Ghoneim ME, Abdallah DM, Shebl AM, El-Abhar HS. The interrupted cross-talk of inflammatory and oxidative stress trajectories signifies the effect of artesunate against hepatic ischemia/reperfusion-induced inflammasomopathy. Toxicol Appl Pharmacol. 2020 Oct 29

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