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Tyro3

Rat Anti-Mouse Tyrosine-protein kinase Dtk Clone 9J17 mAb

Catalog No.	CME114	**Quantity:**	100 µg

Alternate Names: Tyrosine-protein kinase receptor TYRO3, Etk2

Gene ID: 22174

Description: Receptor tyrosine kinase that transduces signals from the extracellular matrix into the cytoplasm by binding to several ligands including TULP1 or GAS6. Regulates many physiological processes including cell survival, migration and differentiation. Ligand binding at the cell surface induces dimerization and autophosphorylation of TYRO3 on its intracellular domain that provides docking sites for downstream signaling molecules. Following activation by ligand, interacts with PIK3R1 and thereby enhances PI3-kinase activity. Activates the AKT survival pathway, including nuclear translocation of NF-kappa-B and up-regulation of transcription of NF-kappa-B-regulated genes. TYRO3 signaling plays a role in various processes such as neuron protection from excitotoxic injury, platelet aggregation and cytoskeleton reorganization. Plays also an important role in inhibition of Toll-like receptors (TLRs)-mediated innate immune response by activating STAT1, which selectively induces production of suppressors of cytokine signaling SOCS1 and SOCS3.

UniProtKB: P55144

Host: Rat

Immunogen: Recombinant extracellular domain of mouse Dtk

Isotype: IgG1

Clone: 9J17

Formulation: Lyophilized from a 0.2 µm sterile filtered solution in PBS

Purification: Protein G affinity chromatography

Reconstitution: **Centrifuge vial prior to opening.** Add 500 µl sterile distilled water to the vial to fully solubilize the antibody to a final concentration of 200 µg/ml.

Applications: Western Blot and Immunohistochemistry (P)

Storage & Stability: Store lyophilized antibody at -80°C. Reconstituted antibody is stable for 6 months in working aliquots at -20°C to -80°C. **Avoid repeated freeze-thaw cycles.**

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