Monoclonal Antibody to CD3 (Mouse)

CD3 complex is crucial in transducing antigen-recognition signals into the cytoplasm of T cells and in regulating the cell surface expression of the TCR complex. T cell activation through the antigen receptor (TCR) involves the cytoplasmic tails of the CD3 subunits CD3 gamma, CD3 delta, CD3 epsilon and CD3 zeta. These CD3 subunits are structurally related members of the immunoglobulins superfamily encoded by closely linked genes on human chromosome 11. The CD3 components have long cytoplasmic tails that associate with cytoplasmic signal transduction molecules. This association is mediated at least in part by a double tyrosine-based motif present in a single copy in the CD3 subunits. CD3 may play a role in TCR-induced growth arrest, cell survival and proliferation.

Cat# : EZG090  100 µg

Clone: 145-2C11
Isotype: Hamster IgG
Specificity: The Armenian hamster monoclonal antibody 145-2C11 reacts with mouse CD3 (epsilon subunit). This antibody is commonly used as a phenotypic marker for mouse T cells.
Species Reactivity: Mouse

Application:
Flow Cytometry - Recommended dilution: 1-2 µg / ml (million cells)
Immunoprecipitation - Recommended dilution: 1-2 µg / 100-500 µg protein in 1 ml cell lysate
Immunohistochemistry (frozen and paraffine sections)
Functional Application - Induction of T cell activation, proliferation or apoptosis (depending on conditions); in vivo T cell depletion

Purity: >95% (by SDS-PAGE).
Purification: Purified by protein A.
Concentration: 1 mg/ml
Storage Buffer: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4

Storage / Stability:
Store at 2-8°C. Do not use after expiration date stamped on vial label.

References:
*And many other.

For in vitro research use only