

## Purified Anti-Mouse CD3ε Antibody[145-2C11], Functional Grade

catalog number: E-AB-F11030

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Description

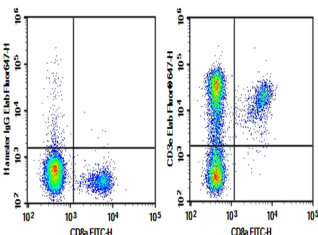
<b>Reactivity</b>	Mouse
<b>Immunogen</b>	Recombinant Mouse CD3ε protein
<b>Host</b>	Armenian Hamster
<b>Isotype</b>	Armenian Hamster IgG
<b>Clone</b>	145-2C11
<b>Purification</b>	>98%, Protein A/G purified
<b>Buffer</b>	Sterile PBS, pH 7.2. < 1.0 EU per mg of the antibody as determined by the LAL method.

### Applications

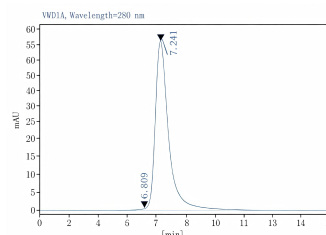
### Recommended Dilution

<b>FCM</b>	≤ 0.2 µg per million cells in 100 µL volume
<b>Activ</b>	Reported in the literature
<b>Depletion</b>	Reported in the literature
<b>Stim</b>	Reported in the literature

### Data



C57/BL6 Mouse splenocytes were stained with 0.2 µg Purified Anti-Mouse CD3ε Antibody[145-2C11], Functional Grade (Right) and 0.2 µg Armenian Hamster IgG, κ Isotype Control (Left), followed by Elab Fluor® 647-conjugated Goat Anti- Armenian Hamster IgG Secondary Antibody, then anti-Mouse CD8a FITC-conjugated Monoclonal Antibody.



Monomer purity ≥95% as determined by analytical size-exclusion chromatography (SEC)

### Preparation & Storage

<b>Storage</b>	Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze / thaw cycles. This preparation contains no preservatives, thus it should be handled under aseptic conditions.
<b>Shipping</b>	Ice bag

### Background

#### For Research Use Only

CD3ε is a 20 kD transmembrane protein, also known as CD3 or T3. It is a member of the Ig superfamily and primarily expressed on T cells, NK-T cells, and at different levels on thymocytes during T cell differentiation. CD3ε forms a TCR complex by associating with the CD3δ, γ and ζ chains, as well as the TCR α/β or γ/δ chains. CD3 plays a critical role in TCR signal transduction, T cell activation, and antigen recognition by binding the peptide/MHC antigen complex.

None (Azide-Free, Low Endotoxin) are perfectly suited to be used in culture or in vivo (for nonhuman studies) for functional assays blocking, neutralizing, activation or depletion where the presence of azide may damage cells or exogenous endotoxin may signal or activate cells.

## Application References

Ariella Glasner, et al. *Immunity*. 2018 Jan 16;48(1):107-119.e4. Noga Ron-Harel, et al. *Cell Metab*. 2016 Jul 12;24(1):104-17.