

Anti-CD3 epsilon Antibody [OKT-3 (muromonab)]

Product Information

GM-51478AB-10	10 µg
GM-51478AB-100	100 µg
GM-51478AB-1000	1 mg

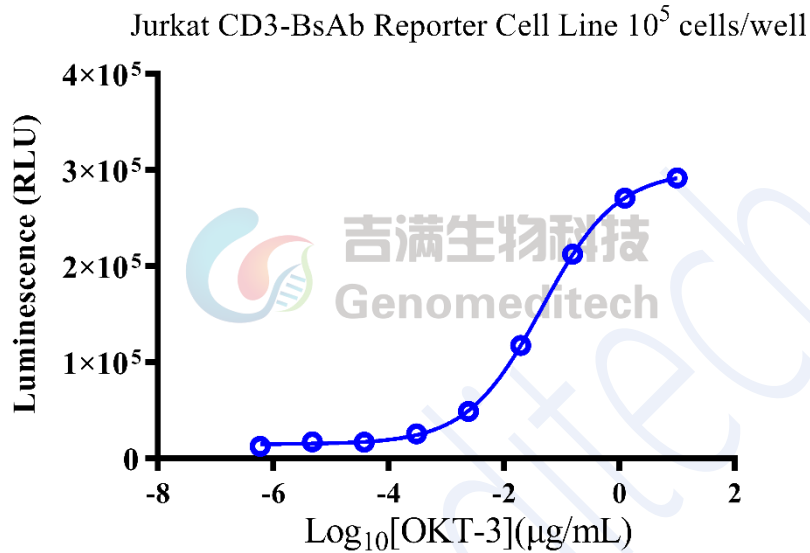
Antibody Information

Species Reactivity	Human
Clone	muromonab
Source/Isotype	Human IgG1, κ
Application	Activation assay
Specificity	Detects CD3E
Gene	CD3E
Other Names	CD3E; CD3 epsilon; T3E; TCRE; T-cell surface glycoprotein CD3 epsilon chain; T-cell surface antigen T3/Leu-4 epsilon chain; CD3e; OKT3
Antibody Other Names	Muromonab; Muromonab-CD3; Orthoclone-OKT3; Muromonab OKT-3;
Background	CD3 (cluster of differentiation 3) is a protein complex and T cell co-receptor that is involved in activating both the cytotoxic T cell (CD8+ naive T cells) and T helper cells (CD4+ naive T cells). It is composed of four distinct chains. In mammals, the complex contains a CD3γ chain, a CD3δ chain, and two CD3ε chains. The CD3 receptor is a membrane protein on the surface of T cells. Muromonab is an immunosuppressant drug given to reduce acute rejection in patients with organ transplants. It is a monoclonal antibody targeted at the CD3 receptor.
Storage	Store at 2-8°C short term (1-2 weeks). Store at ≤ -20°C long term. Avoid repeated freeze-thaw.
Formulation	Phosphate-buffered solution, pH 7.2.
Endotoxin	< 1 EU/mg, determined by LAL gel clotting assay

Data Examples

Activation assay

Serial dilutions of Anti-CD3 epsilon Antibody [OKT-3 (muromonab)] (1:8 serial dilutions, from 10 $\mu\text{g}/\text{mL}$ to 600 fg/mL) (Catalog # GM-51478AB) were added into NFAT-Luc Reporter Jurkat Cell Line (Catalog # GM-C01459). EC_{50} for this effect was 0.04600 $\mu\text{g}/\text{mL}$.



	Jurkat CD3-BsAb Reporter Cell Line
EC50	0.04600

Fig . Assay