

## Datasheet

### CD8 monoclonal antibody, clone MEM-31 (FITC)

**Catalog Number:** MAB4596

**Regulatory Status:** For research use only (RUO)

**Product Description:** Mouse monoclonal antibody raised against native CD8.

**Clone Name:** MEM-31

**Immunogen:** Native purified CD8 from Crude thymus membrane fraction.

**Host:** Mouse

**Reactivity:** Human

**Applications:** Flow Cyt  
(See our web site product page for detailed applications information)

**Protocols:** See our web site at <http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Specificity:** This antibody recognizes a conformationally-dependent epitope of CD8, a cell surface glycoprotein found on most cytotoxic T lymphocytes that mediates efficient cell-cell interactions within the immune system. CD8 is a disulfide-linked dimer and exists as a CD8 alpha/alpha homodimer or CD8 alpha/beta heterodimer (each monomer approx. 32-34 kDa).

This antibody does not react with formaldehyde-fixed cells; negative in Western Blot application.

**Form:** Liquid

**Conjugation:** FITC

**Isotype:** IgG2a

**Recommend Usage:** Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or 10<sup>6</sup> cells in a suspension)

The optimal working dilution should be determined by the end user.

**Storage Buffer:** In PBS (0.2% BSA, 0.09% sodium azide)

**Storage Instruction:** Store in the dark at 4 °C. Do not freeze.

Avoid prolonged exposure to light.

Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 925|926

**Gene Symbol:** CD8A

**Gene Alias:** CD8, Leu2, MAL, p32

#### References:

1. Coreceptor CD8-driven modulation of T cell antigen receptor specificity. van den Berg HA, Wooldridge L, Laugel B, Sewell AK. *J Theor Biol.* 2007 Nov 21;249(2):395-408. Epub 2007 Aug 8.
2. CD8 Raft localization is induced by its assembly into CD8alpha beta heterodimers, Not CD8alpha alpha homodimers. Pang DJ, Hayday AC, Bijlmakers MJ. *J Biol Chem.* 2007 May 4;282(18):13884-94. Epub 2007 Mar 6.
3. Monoclonal antibodies against human leucocyte antigens. II. Antibodies against CD45 (T200), CD3 (T3), CD43, CD10 (CALLA), transferrin receptor (T9), a novel broadly expressed 18-kDa antigen (MEM-43) and a novel antigen of restricted expression (MEM-74). Horejsi V, Angelisova P, Bazil V, Kristofova H, Stoyanov S, Stefanova I, Hausner P, Vosecky M, Hilgert I. *Folia Biol (Praha).* 1988;34(1):23-34.