Monoclonal Mouse Mo ES-Derived Definitive Endoderm raised in Rat - Antibody RES344

Antibody Information

Antibody ID: A82213

Antigen: Mo ES-Derived Definitive Endoderm (No Gene ID associated)

Type: Monoclonal

Isotype: IgG1

Immunogen Source: Cell

Raised In: Rat

Peptide: Not provided

Source of Antigen: Mouse

Cross Reacts With: Unknown

Affinity Purified: Supernatant

Purity Details: Not provided

Positive Control: Mouse ES cells exposed to Activin for 6D

Notes: The monoclonal antibody produced by hybridoma DMBC0 8 E10 reacts with a cell surface molecule on mouse ES-derived definitive endoderm. The antibody reacts with definitive endoderm derived from ES cells differentiated for 6D with activin (Foxa3 positive cells), and does not react with ES cells differentiated under conditions giving rise to mesoderm or ectoderm. The monoclonal antibody has also been found to react with cells in the developing mouse embryo. This hybridoma was developed by the Keller, Streeter, and Grompe Laboratories.

Applications and Uses

Application | Concentration | Storage Buffer | Protocols and Description
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FACS | Not provided | Tissue Culture Media | Description: A standard two-step staining strategy can be used with this rat monoclonal antibody. Incubate test cells with supernatant (30 min on ice). Wash cells 1X with PBS containing 2% FBS. Resuspend cells in a fluorochrome-conjugated secondary anti-rat Ig (H+L). The secondary antibody used in the figures shown here was an APC-donkey anti-rat IgG (H+L) (Jackson ImmunoResearch Laboratories, Inc.; diluted 1:200). Wash cells again in PBS and evaluate. If additional staining with a conjugated rat antibodies is desired, block any anti-rat binding sites with rat IgG (50 µg/mL for 10 min), then add titrated conjugated rat antibody. Protocols:

Associated Images

Image 1

Description: The monoclonal antibody produced by hybridoma DMBC0 8 E10 reacts with ES-derived mouse definitive endoderm. Mouse definitive endoderm, derived by treatment of embryonic stem cells with activin (6D) expresses Foxa3 and the cell surface molecule recognized by the monoclonal antibody produced by hybridoma DMBC0
The monoclonal antibody produced by hybridoma DMBC0 8-E10 does not react with mouse embryonic stem cells. Mouse embryonic stem cells incubated with secondary antibody alone (shaded region) or DMBC0 8-E10 monoclonal antibody plus APC-conjugated secondary antibody (black line). The results indicate no substantive staining of ES cells.

Reference: Not provided

The monoclonal antibody produced by hybridoma DMBC0 8-E10 reacts with ES-derived mouse definitive endoderm, but not with ES-derived mesoderm or ectoderm.

Reference: Not provided