

DESCRIPTION

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|---------------------------|---|
| Species Reactivity | Mouse |
| Specificity | Detects mouse FoxD3 in ELISAs. In direct ELISAs, no cross-reactivity with recombinant human FoxD3 is observed. |
| Source | Monoclonal Rat IgG _{2A} Clone # 800602 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | <i>E. coli</i> -derived recombinant mouse FoxD3 Met1-Val130 Accession # Q61060 |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS. |

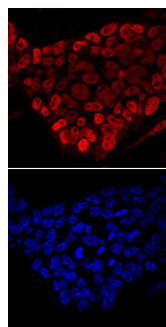
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

| | Recommended Concentration | Sample |
|----------------------------|----------------------------------|---------------|
| Immunocytochemistry | 8-25 µg/mL | See Below |

DATA

Immunocytochemistry



FoxD3 in D3 Mouse Stem Cell Line. FoxD3 was detected in immersion fixed D3 mouse embryonic stem cell line using Rat Anti-Mouse FoxD3 Monoclonal Antibody (Catalog # MAB5090) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rat IgG Secondary Antibody (red, upper panel; Catalog # NL013) and counterstained with DAPI (blue, lower panel). Specific staining was localized to nuclei. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

PREPARATION AND STORAGE

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|--------------------------------|--|
| Reconstitution | Sterile PBS to a final concentration of 0.5 mg/mL. |
| Shipping | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

BACKGROUND

FoxD3 (forkhead box protein D3; also HNF3, HFH2 and Genesis) is a 50 kDa member of the winged helix transcription factor gene family. It is expressed in the epiblast, migrating neural crest, and motoneurons plus interneuron progenitors of the developing spinal cord. Mouse FoxD3 is 465 amino acids (aa) in length. It contains a forkhead DNA binding domain (aa 131-208) plus an Ala-rich region (aa 248-464) that contains a Gly-rich motif (aa 369-399). There appears to be one splice form that shows a four aa insert after Gly261. Over aa 1-130, mouse FoxD3 shares 97% and 79% aa identity with rat and human FoxD3, respectively.