**BACKGROUND**

Fibrillarin is a widely occurring, basic, nonhistone protein that is localized exclusively in the fibrillar region of the nucleolus, including both the dense fibrillar and the fibrillar center regions. Fibrillarin is a protein that is also expressed in HeLa cells, 3T3 cells, and human peripheral blood lymphocytes. In metaphase and anaphase, Fibrillarin is found on putative chromosomal nucleolar regions (NORs). During telophase, Fibrillarin is an early marker for the site of the newly forming nucleolus. The structure of Fibrillarin includes an RNA-binding domain and an RNP consensus sequence, which is consistent with the association of Fibrillarin with the U3 small nuclear RNA. Fibrillarin is involved in processing rRNA transcripts in the nucleolus.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: FBL (human) mapping to 19q13.2; Fbl (mouse) mapping to 7 A3.

**SOURCE**

Fibrillarin (G-8) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 99-127 within an internal region of Fibrillarin of human origin.

**PRODUCT**

Each vial contains 200 µg IgG; kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Fibrillarin (G-8) is available conjugated to agarose (sc-374022 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-374022 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-374022 PE), fluorescein (sc-374022 FITC), Alexa Fluor® 488 (sc-374022 AF488), Alexa Fluor® 546 (sc-374022 AF546), Alexa Fluor® 594 (sc-374022 AF594) or Alexa Fluor® 647 (sc-374022 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-374022 AF680) or Alexa Fluor® 790 (sc-374022 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-374022 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.

**STORAGE**

Store at 4°C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**APPLICATIONS**

Fibrillarin (G-8) is recommended for detection of Fibrillarin of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation (starting dilution 1:2 µg per 100-500 µg of total protein (1 ml of cell lysate)), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Fibrillarin (G-8) is also recommended for detection of Fibrillarin in additional species, including canine, bovine and porcine.


Molecular Weight of Fibrillarin: 36 kDa.

Positive Controls: JAR cell lysate: sc-2276, A-10 cell lysate: sc-3806 or Hep G2 cell lysate: sc-2227.

**DATA**

Fibrillarin (G-8): sc-374022. Western blot analysis of Fibrillarin expression in JAR (A), Hep G2 (B), A-10 (C), I-13.35 (D), A-10 (E) and PC-12 (F) whole cell lysates.

Fibrillarin (G-8) sc-374022. Immunofluorescence staining of methanol-fixed HeLa cells showing nucleolar localization (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human breast tissue showing nuclear and nuclear staining of glandular cells (B).

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.