

**Antibody to NTF2 (5A3)**
MOUSE MONOCLONAL

Catalog Number: AB-V66
Quantity: 100 micrograms
Format: PBS (0.14 M Sodium Chloride; 0.003 M Potassium Chloride; 0.002 M Potassium Phosphate; 0.01 M Sodium Phosphate; pH 7.4), no preservative.
Host: Mouse
Isotype: IgG2a
Clone: 5A3
Immunogen: Tyrosine phosphoproteins purified from chicken embryonic fibroblasts (CEFs) expressing pp60/c-src 527F and 2A/527F

Background: Nucleocytoplasmic transport is essential for regulating processes such as transcription, translation, growth factor signaling, stress responses, and cell cycle progression. Nuclear transport factor 2 (NTF2) is a soluble transport protein first identified for its ability to promote nuclear localization signal (NLS)-dependent protein import in digitonin-permeabilized cells. NTF2 interacts with nuclear pore complex proteins and binds the GDP-bound form of Ran in vitro, facilitating the transport of cargo proteins into the nucleus.

Specificity & Preparation: This mouse IgG2a antibody is generated against human NTF2 and recognizes both human and xenopus homologs.

Usage: Applications include western blot and immunofluorescence. Working dilutions must be determined by end user.

Storage: Store antibody at -20°C for one year. Avoid repeated freezing and thawing. Gently spin down material 5-10 seconds in a microfuge before use.

**Selected References:**

1. Steggerda SM, Black BE, Paschal BM (2000) Monoclonal antibodies to NTF2 inhibit nuclear protein import by preventing nuclear translocation of the GTPase Ran. *Mol Biol Cell* 11(2):703-719. doi: 10.1091/mbc.11.2.703 PMID: 10679025

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