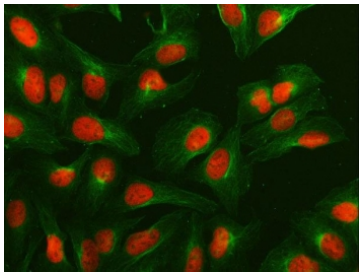
NUMA1 Antibody / Nuclear mitotic apparatus protein 1 (RQ8284)

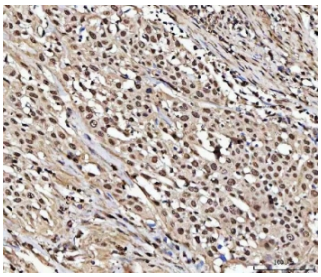
Catalog No.	Formulation	Size
RQ8284	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

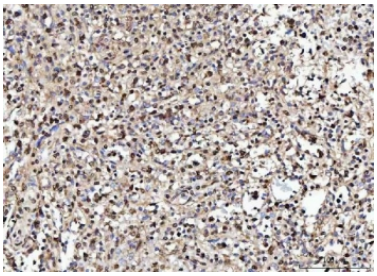
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat, Monkey
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q14980
Localization	Nuclear, cytoplasmic
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Immunofluorescence: 5ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This NUMA1 antibody is available for research use only.



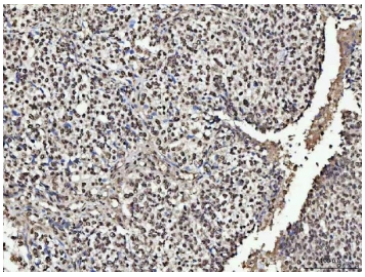
Immunofluorescent staining of FFPE human U-2 OS cells with NUMA1 antibody (red) and Beta Tubulin mAb (green). HIER: steam section in pH6 citrate buffer for 20 min.



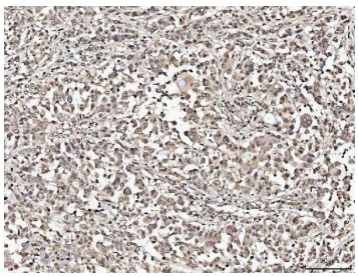
IHC staining of FFPE human esophageal squamous carcinoma tissue with NUMA1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



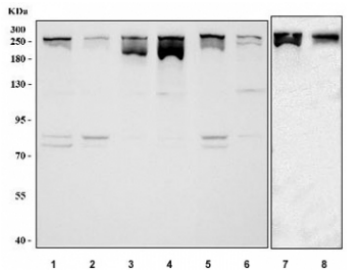
IHC staining of FFPE human acinar adenocarcinoma of prostate tissue with NUMA1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



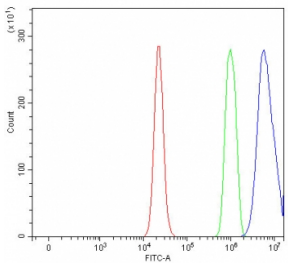
IHC staining of FFPE human breast cancer tissue with NUMA1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human lung cancer tissue with NUMA1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human HeLa, 2) monkey COS-7, 3) human MCF7, 4) human SH-SY5Y, 5) human SiHa, 6) human RT4, 7) rat PC-12 and 8) mouse NIH 3T3 cell lysate with NUMA1 antibody. Predicted molecular weight: 194-238 kDa (multiple isoforms), may be observed at higher molecular weights due to glycosylation.



Flow cytometry testing of fixed and permeabilized human RT4 cells with NUMA1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= NUMA1 antibody.

Description

Nuclear mitotic apparatus protein 1 is a protein that in humans is encoded by the NUMA1 gene. This gene encodes a large protein that forms a structural component of the nuclear matrix. The encoded protein interacts with microtubules and plays a role in the formation and organization of the mitotic spindle during cell division. Chromosomal translocation of this gene with the RARA (retinoic acid receptor, alpha) gene on chromosome 17 have been detected in patients with acute promyelocytic leukemia. Alternative splicing results in multiple transcript variants.

Application Notes

Optimal dilution of the NUMA1 antibody should be determined by the researcher.

Immunogen

An E.coli-derived human recombinant protein (M1-E1954) was used as the immunogen for the NUMA1 antibody.

Storage

After reconstitution, the NUMA1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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