

Datasheet for ABIN7161170  
**anti-SYNE2 antibody (AA 1-176)**



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2 Images

## Overview

Quantity:	100 µg
Target:	SYNE2
Binding Specificity:	AA 1-176
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SYNE2 antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

## Product Details

Immunogen:	Recombinant Human Nesprin-2 protein (1-176AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

## Target Details

Target:	SYNE2
Alternative Name:	SYNE2 ( <a href="#">SYNE2 Products</a> )
Background:	Background: Multi-isomeric modular protein which forms a linking network between organelles and the actin cytoskeleton to maintain the subcellular spatial organization. As a component of

## Target Details

the LINC (Linker of Nucleoskeleton and Cytoskeleton) complex involved in the connection between the nuclear lamina and the cytoskeleton. The nucleocytoplasmic interactions established by the LINC complex play an important role in the transmission of mechanical forces across the nuclear envelope and in nuclear movement and positioning. Specifically, SYNE2 and SUN2 assemble in arrays of transmembrane actin-associated nuclear (TAN) lines which are bound to F-actin cables and couple the nucleus to retrograde actin flow during actin-dependent nuclear movement. May be involved in nucleus-centrosome attachment. During interkinetic nuclear migration (INM) at G2 phase and nuclear migration in neural progenitors its LINC complex association with SUN1/2 and probable association with cytoplasmic dynein-dynactin motor complexes functions to pull the nucleus toward the centrosome, SYNE1 and SYNE2 may act redundantly. During INM at G1 phase mediates respective LINC complex association with kinesin to push the nucleus away from the centrosome. Involved in nuclear migration in retinal photoreceptor progenitors. Required for centrosome migration to the apical cell surface during early ciliogenesis.

Aliases: DKFZP434H2235 antibody, DKFZp686E01115 antibody, DKFZp686H1931 antibody, FLJ11014 antibody, FLJ43727 antibody, FLJ45710 antibody, FLJ46790 antibody, KIAA1011 antibody, Nesprin-2 antibody, Nesprin2 antibody, NUA antibody, NUANCE antibody, Nuclear envelope spectrin repeat protein 2 antibody, Nucleus and actin connecting element antibody, Nucleus and actin connecting element protein antibody, Protein NUANCE antibody, Spectrin repeat containing nuclear envelope 2 antibody, Synaptic nuclear envelope protein 2 antibody, Synaptic nuclei expressed gene 2 antibody, SYNE 2 antibody, Syne-2 antibody, SYNE2 antibody, SYNE2\_HUMAN antibody

UniProt: [Q8WXH0](#)

Pathways: [Maintenance of Protein Location](#)

## Application Details

Application Notes: Recommended dilution: IHC:1:20-1:200, IF:1:50-1:200,

Restrictions: For Research Use only

## Handling

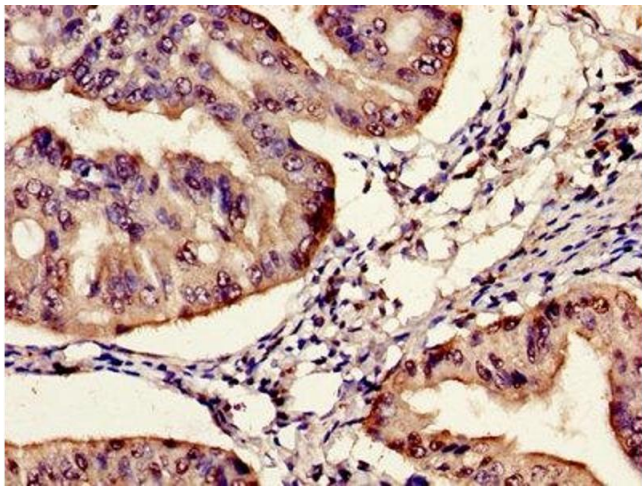
Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300  
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Handling

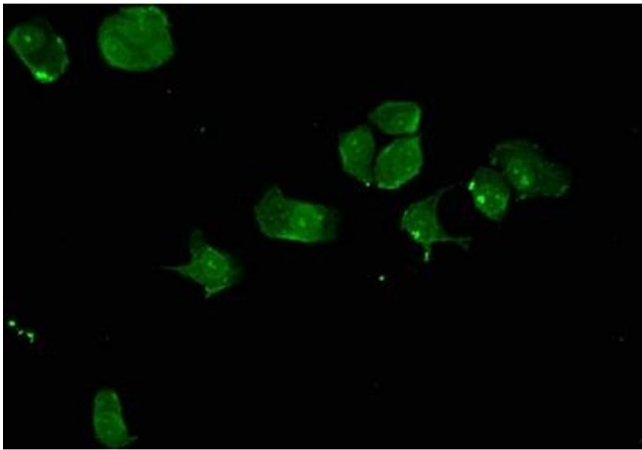
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



Immunohistochemistry

**Image 1.** Immunohistochemistry of paraffin-embedded human endometrial cancer using ABIN7161170 at dilution of 1:100



Immunofluorescence

**Image 2.** Immunofluorescent analysis of MCF-7 cells using ABIN7161170 at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)