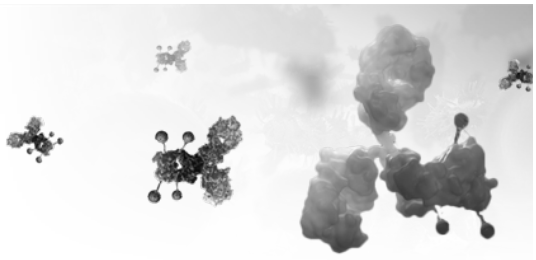

Mouse Anti-Human SUN2 (SUN domain-containing protein 2) Monoclonal Antibody, clone 4.2F (CABT-Z338M)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	Glutathione-S-transferase fused to residues 1-121 of human Sun2.
Isotype	IgG1, κ
Source/Host	Mouse
Species Reactivity	Human, Mouse, Rat
Clone	4.2F
Purification	Protein G purified
Conjugate	Unconjugated
Applications	WB, IHC, IF, ICC
Molecular Weight	Human: 80.3 kDa; Mouse 81.6 kDa
Positive Control	Hela, C2C12, U2O2, fibroblasts
Format	Liquid
Concentration	Lot specific
Size	100 µg
Buffer	0.1M Sodium Phosphate, pH 7.4, 0.15M NaCl, 0.05% (w/v) Sodium Azide
Preservative	0.05% sodium azide

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Storage	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Ship	Wet ice

BACKGROUND

Introduction	SUN (Sad1, UNC-84) domain-containing proteins are type II membrane proteins that span the inner nuclear membrane. SUN proteins interact with lamins and other proteins in the nucleoplasm and with KASH (Klarsicht, ANC-1, and Syne homology) domain-containing proteins in the perinuclear space. Since the KASH proteins span the outer nuclear membrane and interact with components of the cytoskeleton, the SUN-KASH complex, also known as the LINC complex (LInker of the Nucleoskeleton and Cytoskeleton), provides a physical link between the nuclear interior and the cytoskeleton. The LINC complex is involved in diverse cellular functions including nuclear architecture, nuclear anchorage and migration, meiotic chromosome movement and cytoskeletal organization. Not surprisingly, aberrations in the LINC complex have been associated with number of human genetic diseases, including muscular dystrophy, cerebellar ataxia, hearing loss and infertility. In mammals the SUN protein family consists of at least 5 members. Sun1 and Sun2 share a high degree of homology and are ubiquitously expressed. Sun3-5 are more distantly related to Sun1-2 and have limited tissue expression.
Keywords	SUN2;SUN domain-containing protein 2;Protein unc-84 homolog B;Rab5-interacting protein;Rab5IP;Sad1/unc-84 protein-like 2

GENE INFORMATION

Gene Name	SUN2
Entrez Gene ID	25777
UniProt ID	Q9UH99

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