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[Primary Antibody]

Rabbit Anti-C1orf135 antibody

Catalog Number: SL15019R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	C1orf135
Immunogen:	KLH conjugated synthetic peptide derived from human C1orf135: 231-330/357
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Human, Mouse, Rat, Dog, Pig, Cow, Rabbit)
Predicted MW.:	40kDa
Subcellular Location:	The nucleus cytoplasmic
Background:	Chromosome 1 is the largest human chromosome spanning about 260 million base pairs and making up 8% of the human genome. There are about 3,000 genes on chromosome 1, and considering the great number of genes there are also a large number of diseases associated with chromosome 1. Notably, the rare aging disease Hutchinson-Gilford progeria is associated with the LMNA gene which encodes lamin A. When defective, the LMNA gene product can build up in the nucleus and cause characteristic nuclear blebs. The mechanism of rapidly enhanced aging is unclear and is a topic of continuing exploration. The MUTYH gene is

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	located on chromosome 1 and is partially responsible for familial adenomatous polyposis. Stickler syndrome, Parkinsons, Gaucher disease and Usher syndrome are also associated with chromosome 1. A breakpoint has been identified in 1q which disrupts the DISC1 gene and is linked to schizophrenia. Aberrations in chromosome 1 are found in a variety of cancers including head and neck cancer, malignant melanoma and multiple myeloma. The C1orf135 gene product has been provisionally designated C1orf135 pending further characterization. **Function:** Required for the dynamic movement of AURKA at the centrosomes and spindle apparatus during the cell cycle. **Subunit:** Interacts (via C-terminus) with AURKA (via C-terminus). Interacts (via N-terminus) with NIN; this interaction blocks NIN phosphorylation by both AURKA and GSK3B. Identified in a complex with NIN and AURKA. **Subcellular Location:** Cytoplasm, cytoskeleton, centrosome. Cytoplasm, cytoskeleton, spindle pole. Note=Localizes to the centrosome in interphase and to the spindle pole in metaphase. **Tissue Specificity:** Expressed in heart, skeletal muscles, placenta and testis. **Database links:** **Entrez Gene:** 79000 Human **SwissProt:** Q9H7T9 Human **Unigene:** 725400 Human

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