SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-FRY/C13orf14 antibody

Catalog Number: SL16183R

FOR RESEARCH USE ONLY

[DATASHEET]

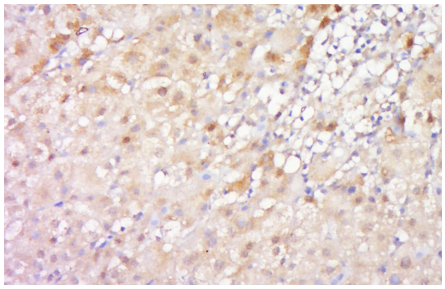
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	FRY/C13orf14
Immunogen:	KLH conjugated synthetic peptide derived from human FRY/C13orf14: 101-200/3013
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human(predicted:Mouse,Rat,Chicken,Dog,Cow,Sheep)
Predicted MW.:	339kDa
Subcellular Location:	cytoplasmic
Background:	In yeast, flies, and worms, the Dbf2-related (Ndr) kinase protein family functions in various aspects of cell polarity and morphogenesis. The Drosophila melanogaster protein, furry, is responsible for maintaining integrity of polarized cell extensions, such as epidermal hair cells, lateral extensions of the arista and the shafts of neuronal sensory bristles. Mutations in furry lead to the formation of branched arista laterals, bristles and hairs. The yeast homolog of furry, Mor2, is important for the localization of F-actin specifically at the cell ends and is required for the restriction of the growth zones. The mammalian homolog of the Drosophila furry protein is FRY, also known as C13orf14, a 3,013 amino acid protein that probably functions as a transcription factor for genes that regulate the actin cytoskeleton. The gene encoding FRY maps to chromosome 13, which comprises nearly 4% of human

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	DNA and contains around 114 million base pairs and 400 genes. **Function:** Plays a crucial role in the structural integrity of mitotic centrosomes and in the maintenance of spindle bipolarity by promoting PLK1 activity at the spindle poles in early mitosis. May function as a scaffold promoting the interaction between AURKA and PLK1, thereby enhancing AURKA-mediated PLK1 phosphorylation. **Subunit:** When phosphorylated by CDK1, interacts with PLK1; this interaction occurs in mitotic cells, but not in interphase cells, and leads to further phosphorylation by PLK1. Interacts with AURKA. **Subcellular Location:** Cytoplasm. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, spindle pole. Note=Distributed diffusely throughout the cytoplasm in interphase. Localizes to the separating centrosomes in prophase, to the spindle poles and spindle microtubules in prometaphase to metaphase, to spindle microtubules in anaphase and to the distal sections of the midbody in cytokinesis. Colocalizes with PLK1 to separating centrosomes and spindle poles from prophase to metaphase in mitosis, but not in other stages of the cell cycle. **Post-translational modifications:** Phosphorylated by AURKA, CDK1 and PLK1. **Similarity:** Belongs to the furry protein family. **Database links:** **Entrez Gene:** 10129 Human Omim: 614818 Human **SwissProt:** Q5TBA9 Human **Unigene:** 507669 Human

[VALIDATION IMAGES]



Tissue/cell:human hepatocellular carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-FRY/C13orf14 Polyclonal Antibody, Unconjugated(SL16183R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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