

hIST1 Rabbit pAb

CatalogNo: YN5785

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB

MW

- 40kD (Calculated)

Isotype

- IgG

Recommended Dilution Ratios

WB 1:500-2000

Storage

Storage*

-15°C to -25°C/1 year(Do not lower than -25°C)

Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality

Polyclonal

Immunogen Information

Immunogen

Synthesized peptide derived from human hIST1

Specificity

This antibody detects endogenous levels of hIST1 at Human, Mouse, Rat

Target Information

Gene name

IST1 KIAA0174

Protein Name IST1 homolog (hIST1) (Putative MAPK-activating protein PM28)

Organism	Gene ID	UniProt ID
Human	9798 ;	P53990 ;
Mouse	71955 ;	Q9CX00 ;
Rat	307833 ;	Q568Z6 ;

**Cellular
Localization**

Cytoplasmic vesicle . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Midbody . Nucleus envelope . Localizes to centrosome and midbody of dividing cells (PubMed:19129480, PubMed:19129479, PubMed:20719964). Colocalized with SPART to the ends of Flemming bodies during cytokinesis (PubMed:20719964). Localizes to the reforming nuclear envelope on chromatin disks during late anaphase. .

Function

ESCRT-III-like protein involved in cytokinesis, nuclear envelope reassembly and endosomal tubulation . Is required for efficient abscission during cytokinesis . Involved in recruiting VPS4A and/or VPS4B to the midbody of dividing cells . During late anaphase, involved in nuclear envelope reassembly and mitotic spindle disassembly together with the ESCRT-III complex: IST1 acts by mediating the recruitment of SPAST to the nuclear membrane, leading to microtubule severing . Recruited to the reforming nuclear envelope (NE) during anaphase by LEMD2 . Regulates early endosomal tubulation together with the ESCRT-III complex by mediating the recruitment of SPAST .

Validation Data

Contact information

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hIST1 Rabbit pAb

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