FBXO5 Rabbit pAb

CatalogNo: YN6322

Key Features

Host Species	Reactivity	Applications
• Rabbit	• Human,Mouse	• WB

MW	Isotype
• 49kD (Calculated)	• 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 FBXO5
Specificity	This antibody detects endogenous levels of FBXO5 at Human, Mouse

Target Information

Gene name	FBXO5 EMI1 FBX5

Protein Name F-box only protein 5 (Early mitotic inhibitor 1)

Organism	Gene ID	UniProt ID
Human	26271;	Q9UKT4;
Mouse	67141;	Q7TSG3;

Cellular Localization Nucleus . Cytoplasm . Cytoplasm, cytoskeleton, spindle . In interphase, localizes in a punctate manner in the nucleus and cytoplasm with some perinuclear concentration (PubMed:11988738). In mitotic cells, localizes throughout the cell, particularly at the spindle (PubMed:15469984). .

Function Regulator of APC activity during mitotic and meiotic cell cycle . During mitotic cell cycle plays a role as both substrate and inhibitor of APC-FZR1 complex . During G1 phase, plays a role as substrate of APC-FZR1 complex E3 ligase . Then switches as an inhibitor of APC-FZR1 complex during S and G2 leading to cell-cycle commitment . As APC inhibitor, prevents the degradation of APC substrates at multiple levels: by interacting with APC and blocking access of APC substrates to the D-box coreceptor, formed by FZR1 and ANAPC10; by suppressing ubiquitin ligation and chain elongation by APC by preventing the UBE2C and UBE2S activities . Plays a role in genome integrity preservation by coordinating DNA replication with mitosis through APC inhibition in interphase to stabilize CCNA2 and GMNN in order to promote mitosis and prevent rereplication and DNA damage-induced cellular senescence . During oocyte maturation, plays a role in meiosis through inactivation of APC-FZR1 complex. Inhibits APC through RPS6KA2 interaction that increases FBXO5 affiniy for CDC20 leading to the metaphase arrest of the second meiotic division before fertilization (By similarity). Controls entry into the first meiotic division through inactivation of APC-FZR1 complex (By similarity). Promotes migration and osteogenic differentiation of mesenchymal stem cells .

Validation Data

Contact information

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Please scan the QR code to access additional product information:
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