

# **Product Name: Emi1 (16Z12) Rabbit Monoclonal Antibody**

Catalog #: AMRe10439

For research use only.

#### **Summary**

**Description** Recombinant rabbit monoclonal antibody

Host Rabbit
Application WB

Reactivity Human,Mouse,Rat
Conjugation Unconjugated
Modification Unmodified

**Isotype** IgG

Clonality Monoclonal
Form Liquid

**Concentration** 0.5mg/ml. The concentration of this product may be batch-dependent. **Storage** Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

**Shipping** Ice bags

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% New type preservative

Buffer N and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw

cycle.

**Purification** Affinity purification

## **Application**

**Dilution Ratio** WB 1:1000-1:5000

Molecular Weight 50kDa

## **Antigen Information**

Gene Name FBXO5

Alternative Names EMI1; FBX5; Fbxo31; fbxo5;

 Gene ID
 26271.0

 SwissProt ID
 Q9UKT4

Immunogen Recombinant protein of human Emi1

## **Background**

Regulates progression through early mitosis by inhibiting the anaphase promoting complex/cyclosome (APC). Binds to the APC

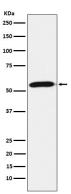


activators CDC20 and FZR1/CDH1 to prevent APC activation. Can also bind directly to the APC to inhibit substrate-binding. Regulator of APC activity during mitotic and meiotic cell cycle (PubMed:17485488, PubMed:17234884, PubMed:17875940, PubMed:23708001, PubMed:23708605, PubMed:16921029). During mitotic cell cycle plays a role as both substrate and inhibitor of APC-FZR1 complex (PubMed:29875408, PubMed:17485488, PubMed:17234884, PubMed:17875940, PubMed:23708001, PubMed:23708605, PubMed:16921029). During G1 phase, plays a role as substrate of APC-FZR1 complex E3 ligase (PubMed:29875408). Then switches as an inhibitor of APC-FZR1 complex during S and G2 leading to cell-cycle commitment (PubMed:29875408). 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 (PubMed:23708605, PubMed:23708001, PubMed:16921029). 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 (PubMed:17234884, PubMed:17485488, PubMed:17875940). 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 (PubMed:29850565).

#### Research Area

Cell Biology

#### **Image Data**



Western blot analysis of Emi1 expression in HepG2 cell lysate.

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