

**bsm-52049R****[ Primary Antibody ]**

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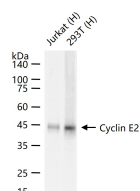
400-901-9800

## Cyclin E2 Recombinant Rabbit mAb

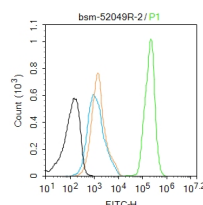
### — DATASHEET —

<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> WB (1:500-2000) <b>IHC-P</b> (1:50-200) <b>IHC-F</b> (1:50-200) <b>IF</b> (1:50-200) <b>Flow-Cyt</b> (1:50-100) <b>ICC/IF</b> (1:50-200)
<b>Clonality:</b> Recombinant	<b>CloneNo.:</b> 2B1	
<b>GeneID:</b> 890	<b>SWISS:</b> P20248	
<b>Target:</b> Cyclin E2		
<b>Immunogen:</b> A synthesized peptide derived from human Cyclin E2: 111-133.		
<b>Purification:</b> affinity purified by Protein A		<b>Reactivity:</b> Human
<b>Concentration:</b> 1mg/ml		
<b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		<b>Predicted MW.:</b> 44 kDa
<b>Background:</b> The human Cyclin E2 gene encodes a 404 amino acid protein that is most closely related to Cyclin E. Cyclin E2 mRNA levels peaks at the G1 / S transition. Cyclin E2 associates with Cdk2 in a functional kinase complex that is inhibited by both p27 (Kip1) and p21 (Cip1). Cyclin E2 / Cdk2 phosphorylates histone H1 in vitro. G1 cyclin E controls the initiation of DNA synthesis by activating CDK2. Abnormally high levels of cyclin E expression have frequently been observed in human cancers. Unlike Cyclin E1, which is expressed in great majority of proliferating normal and neoplastically transformed cells, Cyclin E2 levels are low to undetectable in non transformed cells and increase significantly in neoplasm derived cells.		<b>Subcellular Location:</b> Nucleus

### — VALIDATION IMAGES —



25 µg total protein per lane of various lysates (see on figure) probed with Cyclin E2 monoclonal antibody, unconjugated (bsm-52049R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Blank control:MCF7. Primary Antibody (green line): Rabbit Anti-Cyclin E2 antibody (bsm-52049R) Dilution: 2µg /10<sup>6</sup> cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF488 Dilution: 1µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at -20°C. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

### — SELECTED CITATIONS —

- **[IF=4.147]** Kazumi Kawata. et al. Odontoblast differentiation is regulated by an interplay between primary cilia and the canonical Wnt pathway. Bone. 2021 Sep;150:116001 WB ;Rat. 33975031

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.