

Store at  
-20C  
#15417**Ron (C81H9) Rabbit mAb (Biotinylated)**

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Endogenous	145, 150	Rabbit	#Q04912	4486

**Product Usage Information****Application**

Western Blotting

**Dilution**

1:1000

**Storage**

Supplied in 140 mM NaCl, 3 mM KCl, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium phosphate monobasic, 2 mg/mL BSA, and 50% glycerol. Store at -20°C. *Do not aliquot the antibody.*

**Specificity/Sensitivity**

Ron (C81H9) Rabbit mAb (Biotinylated) recognizes endogenous levels of the  $\beta$  chain of Ron protein. This antibody does not cross-react with other family members.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys624 of human Ron protein.

**Description**

This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody is expected to exhibit the same species cross-reactivity as the unconjugated Ron (C81H9) Rabbit mAb #2654.

**Background**

Ron is a member of the Met proto-oncogene family of receptor tyrosine kinases, which also includes Stk, c-Met, and c-Sea. The functional Ron is a heterodimer composed of a 40 kDa  $\alpha$  chain and a 150 kDa  $\beta$  chain. Ron is initially synthesized in the cells as a single-chain, pro-Ron precursor that is cleaved into the two active chains. The  $\alpha$  chain is completely extracellular, whereas the  $\beta$  chain traverses the cell membrane and contains the intracellular tyrosine kinase and regulatory elements (1,2). Ron mediates multiple signaling cascades that involve cell motility, adhesion, proliferation, and apoptosis. The signaling pathways activated downstream of Ron include the ras/mitogen-activated protein kinase (MAPK), phosphatidylinositol-3 kinase (PI3K)/Akt, and focal adhesion kinase (FAK) pathways. Ron activation can also significantly increase c-Src activity, a signaling intermediate involved in cell cycle progression, motility, angiogenesis, and survival (3,4). The function of Ron has been shown to be important for embryological development as well as implicated in the progression and metastasis of tumors (5).

**Background References**

1. Ronsin, C. et al. (1993) *Oncogene* 8, 1195-202.
2. Gaudino, G. et al. (1994) *EMBO J* 13, 3524-32.
3. Wang, M.H. et al. (1996) *Oncogene* 13, 2167-75.
4. Danilkovitch-Miagkova, A. (2003) *Curr Cancer Drug Targets* 3, 31-40.
5. Leonard, E.J. (1997) *Ciba Found Symp* 212, 183-91; discussion 192-7.

**Species Reactivity**

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer**

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key**

**W:** Western Blotting

**Cross-Reactivity Key**

**H:** Human

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