

Store at
-20C
#69477**COPS6 Antibody**

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

Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 35	Source/Isotype: Rabbit	UniProt ID: #Q7L5N1	Entrez-Gene Id: 10980
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Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

COPS6 Antibody recognizes endogenous levels of total COPS6 protein. This antibody also cross-reacts with an unidentified protein of 78 kDa protein in some cell extracts.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human COPS6 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

COP9 signalosome complex subunit 6 (COPS6) belongs to the multisubunit COP9 signalosome which modulates protein ubiquitination to affect cellular processes such as cell-cycle progression and DNA damage repair (1). COPS6 is a putative oncogene that has been shown to be overexpressed in a significant percentage of colorectal cancers with poor prognosis (2). Mechanistically, research studies have shown that a signaling axis involving EGFR and ERK promotes tumor growth through the phosphorylation of COPS6, which indirectly facilitates downstream stabilization of β-catenin and enhancement of its transcriptional activity (2). Research studies have also demonstrated that COPS6 contributes to tumorigenesis through the stabilization of other oncoproteins like c-Myc, MDM2 and E6AP (3-5).

Background References

1. Wei, N. and Deng, X.W. (2003) *Annu Rev Cell Dev Biol* 19, 261-86.
2. Verwoerd, C.D. et al. (1989) *Rhinol Suppl* 9, 87-96.
3. Zhao, R. et al. (2011) *J Clin Invest* 121, 851-65.
4. Gao, S. et al. (2015) *Oncotarget* 6, 28026-41.
5. Chen, J. et al. (2014) *Nat Commun* 5, 5384.

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 **M:** Mouse **R:** Rat

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