

## Anti-MSH2 Antibody Picoband® APC Conjugated

Catalog Number: PB9284-APC

### About MSH2

DNA mismatch repair protein Msh2, also known as MutS protein homolog 2 or MSH2, is a protein that in humans is encoded by the MSH2 gene, which is located on chromosome 2. MSH2 is a tumor suppressor gene and more specifically a caretaker gene that codes for a DNA mismatch repair (MMR) protein, MSH2 which forms a heterodimer with MSH6 to make the human MutS $\alpha$  mismatch repair complex. It also dimerizes with MSH3 to form the MutS $\beta$  DNA repair complex. MSH2 is involved in many different forms of DNA repair, including transcription-coupled repair, homologous recombination, and base excision repair. It has been found that MSH2 may also be a coactivator of ESR1-dependent gene expression.

### Overview

Product Name	Anti-MSH2 Antibody Picoband® APC Conjugated
Reactive Species	Human, Mouse, Rat
Application	Flow Cytometry
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P43246

### Technical Details

Immunogen	E.coli-derived human MSH2 recombinant protein (Position: Q337-N583). Human MSH2 shares 94% and 93% amino acid (aa) sequence identity with mouse and rat MSH2, respectively.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	APC Excitation Wavelength: 633-647 nm Emission Wavelength: 660 nm
Suggested Dilutions	Flow Cytometry, Optimal dilutions should be determined by end users.

## 1 Publications Citing This Product

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1. PubMed ID: 23485110, Zhang Yx, Yue Z, Wang Py, Li Yj, Xin Jx, Pang M, Zheng Qy, Xie Sy. Biomed Pharmacother. 2013 Mar;67(2):97-102. Doi: 10.1016/J.Biopha.2012.11.008. Epub 2012 Dec 28. Cisplatin Upregulates Msh2 Expression By Reducing Mir-21 To Inhibit A549 Cell Growth.

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