

Datasheet for ABIN3043885  
**anti-MSH2 antibody (AA 337-583)**

5 Images

1 Publication

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## Overview

Quantity:	100 µg
Target:	MSH2
Binding Specificity:	AA 337-583
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC)

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for DNA mismatch repair protein Msh2(MSH2) detection. Tested with WB, IHC-P, ICC in Human,Mouse,Rat.
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.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for DNA mismatch repair protein Msh2(MSH2) detection. Tested with WB, IHC-P, ICC in Human,Mouse,Rat.</p> <p>Gene Name: mutS homolog 2</p> <p>Protein Name: DNA mismatch repair protein Msh2</p>
Purification:	Immunogen affinity purified.

## Target Details

Target:	MSH2
Alternative Name:	MSH2 ( <a href="#">MSH2 Products</a> )
Background:	<p>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 MutSα mismatch repair complex. It also dimerizes with MSH3 to form the MutSβ 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.</p> <p>Synonyms: BAT26 antibody COCA 1 antibody COCA1 antibody DNA mismatch repair protein Msh2 antibody FCC 1 antibody FCC1 antibody hMSH2 antibody HNPCC 1 antibody HNPCC antibody HNPCC1 antibody LCFS2 antibody MSH 2 antibody Msh2 antibody MSH2_HUMAN antibody MutS homolog 2 antibody MutS homolog 2 colon cancer nonpolyposis type 1 antibody MutS protein homolog 2 antibody</p>
Gene ID:	4436
UniProt:	<a href="#">P43246</a>
Pathways:	<a href="#">DNA Damage Repair, Production of Molecular Mediator of Immune Response</a>

## Application Details

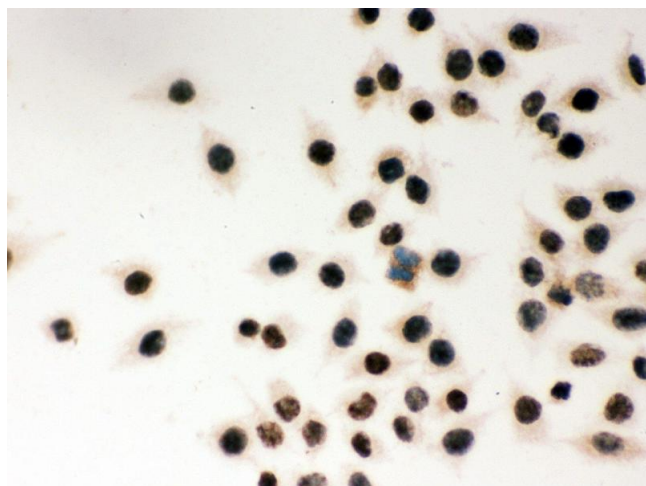
Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, The detection limit for MSH2 is approximately 0.2 ng/lane under reducing conditions.</p> <p>IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.</p> <p>ICC: Concentration: 0.5-1 µg/mL, Tested Species: Human</p> <p>Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.</p>
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P) and ICC.
Restrictions:	For Research Use only

## Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

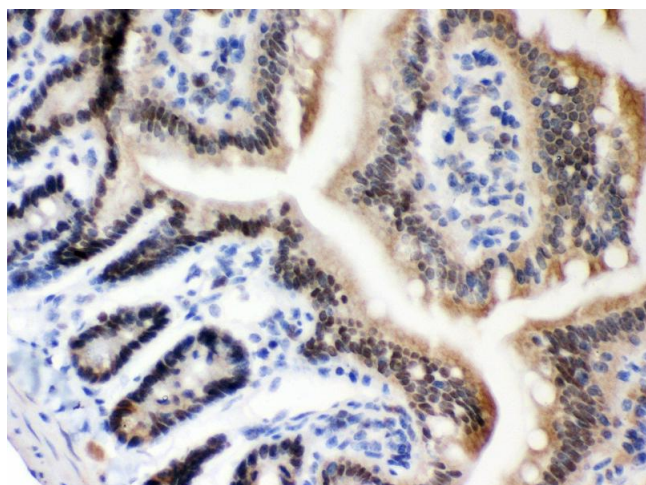
## Publications

Product cited in:	<p>Liu, Hong, Li, Ren, Wang, Xu, Shi, Xu: "A Cross Talk Between BRG1 and Males Absent on the First Contributes to Reactive Oxygen Species Production in a Mouse Model of Nonalcoholic Steatohepatitis." in: <b>Antioxidants &amp; redox signaling</b>, (2018) (<a href="#">PubMed</a>).</p> <p>Meyer, Fredette, Daniel, Sharma, Amann, Arterburn, Barton, Prossnitz: "Obligatory role for GPER in cardiovascular aging and disease." in: <b>Science signaling</b>, Vol. 9, Issue 452, pp. ra105, (2017) (<a href="#">PubMed</a>).</p>
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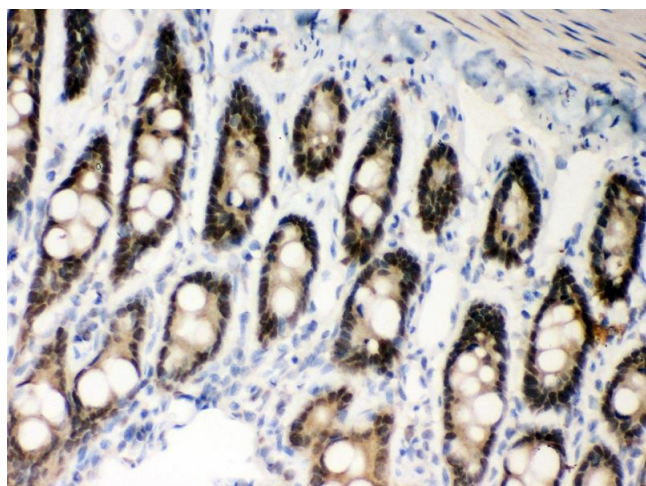
#### Immunohistochemistry

**Image 1.** Anti- MSH2 Picoband antibody, ICC ICC: SMMC Cell



#### Immunohistochemistry

**Image 2.** Anti- MSH2 Picoband antibody, IHC(P) IHC(P): Mouse Intestine Tissue



#### Immunohistochemistry

**Image 3.** Anti- MSH2 Picoband antibody, IHC(P) IHC(P): Rat Intestine Tissue

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3043885.