.-online.com antibodies

Datasheet for ABIN7183857 anti-MSH2 antibody

2 Images



Overview

| Quantity: | 100 µL |
|--------------|---|
| Target: | MSH2 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This MSH2 antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF) |

Product Details

| Immunogen: | Synthesized peptide derived from internal of Human MSH2. | |
|-------------------|---|--|
| Isotype: | lgG | |
| Cross-Reactivity: | Human, Mouse | |
| Purification: | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. | |

Target Details

| Target: | MSH2 | |
|-------------------|--|--|
| Alternative Name: | MSH2 (MSH2 Products) | |
| Background: | | |
| | two different heterodimers: MutS alpha (MSH2-MSH6 heterodimer) and MutS beta (MSH2- MSH3 heterodimer) which binds to DNA mismatches thereby initiating DNA repair. When | |

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| bound, heterodimers bend the DNA helix and shields approximately 20 base pairs. MutS alpha |
|--|
| recognizes single base mismatches and dinucleotide insertion-deletion loops (IDL) in the DNA. |
| MutS beta recognizes larger insertion-deletion loops up to 13 nucleotides long. After mismatch |
| binding, MutS alpha or beta forms a ternary complex with the MutL alpha heterodimer, which is |
| thought to be responsible for directing the downstream MMR events, including strand |
| discrimination, excision, and resynthesis. ATP binding and hydrolysis play a pivotal role in |
| mismatch repair functions. The ATPase activity associated with MutS alpha regulates binding |
| similar to a molecular switch: mismatched DNA provokes ADP>ATP exchange, resulting in a |
| discernible conformational transition that converts MutS alpha into a sliding clamp capable of |
| hydrolysis-independent diffusion along the DNA backbone. This transition is crucial for |
| mismatch repair. MutS alpha may also play a role in DNA homologous recombination repair. In |
| melanocytes may modulate both UV-B-induced cell cycle regulation and apoptosis. |
| |
| Fishel R., Cell 75:1027-1038(1993). |
| Wang Y., Genes Dev. 14:927-939(2000). |
| Wang Y., Proc. Natl. Acad. Sci. U.S.A. 100:15387-15392(2003). |
| Aliases: 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 |
| |

| UniProt: | P43246 |
|----------|--------|
| | |

Pathways:

DNA Damage Repair, Production of Molecular Mediator of Immune Response

Application Details

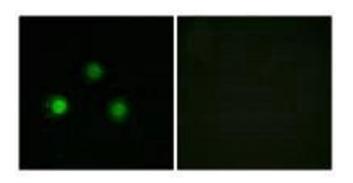
| Application Notes: | cation Notes: WB:1:500-1:3000, IHC:1:50-1:200, IF:1:100-1:200, | |
|--------------------|--|--|
| Restrictions: | For Research Use only | |
| Handling | | |
| Format: | Liquid | |
| Buffer: | Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol. | |
| Preservative: | Sodium azide | |
| | | |

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/3 | Product datasheet for ABIN7183857 | 09/10/2023 | Copyright antibodies-online. All rights reserved.

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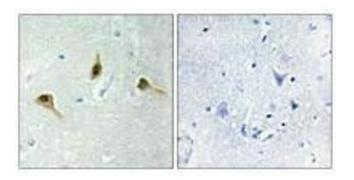
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. | |
|------------------------|--|--|
| Storage: -20 °C,-80 °C | | |
| Storage Comment: | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze. | |

Images



Immunofluorescence

Image 1. Immunofluorescence analysis of HUVEC cells, using MSH2 antibody.



Immunohistochemistry

Image 2. Immunohistochemistry analysis of paraffinembedded human brain tissue using MSH2 antibody.