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# Product datasheet for UM800149

## MSH2 Mouse Monoclonal Antibody [Clone ID: UMAB259]

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Clone Name:** | UMAB259 |
| **Applications:** | IHC |
| **Recommended Dilution:** | IHC 1:2400 |
| **Reactivity:** | Human, Mouse, Rat |
| **Host:** | Mouse |
| **Isotype:** | IgG2b |
| **Clonality:** | Monoclonal |
| **Immunogen:** | Human recombinant protein fragment corresponding to amino acids 1-304 of human MSH2 (NP_000242) produced in E.coli. |
| **Formulation:** | PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide. |
| **Concentration:** | 0.5~1.0 mg/ml (Lot Dependent) |
| **Purification:** | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G) |
| **Conjugation:** | Unconjugated |
| **Storage:** | Store at -20°C as received. |
| **Stability:** | Stable for 12 months from date of receipt. |
| **Predicted Protein Size:** | 104.6 kDa |
| **Gene Name:** | mutS homolog 2 |
| **Database Link:** | NP_000242<br>Entrez Gene 17685 MouseEntrez Gene 81709 RatEntrez Gene 4436 Human<br>P43246 |
| **Background:** | This locus is frequently mutated in hereditary nonpolyposis colon cancer (HNPCC). When cloned, it was discovered to be a human homolog of the E. coli mismatch repair gene mutS, consistent with the characteristic alterations in microsatellite sequences (RER+ phenotype) found in HNPCC. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2012] |

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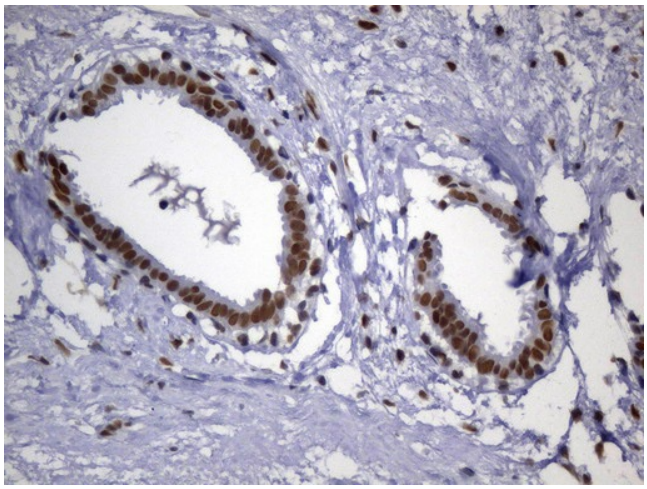
**Synonyms:** COCA1; FCC1; hMSH2; HNPCC; HNPCC1; LCFS2; MMRCS2

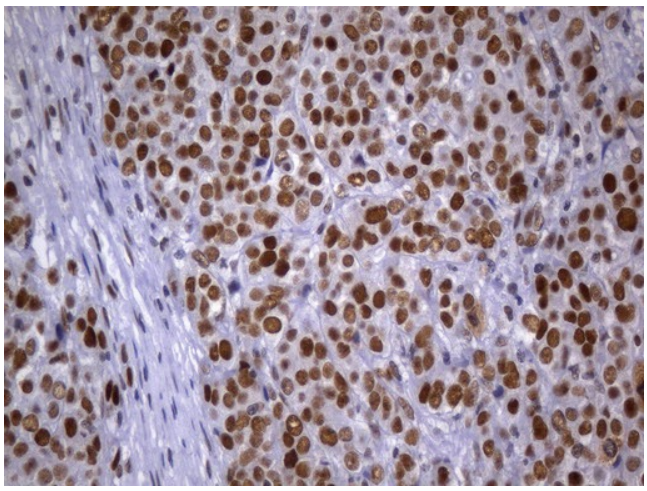
**Protein Families:** Druggable Genome, Stem cell - Pluripotency

**Protein Pathways:** Colorectal cancer, Mismatch repair, Pathways in cancer

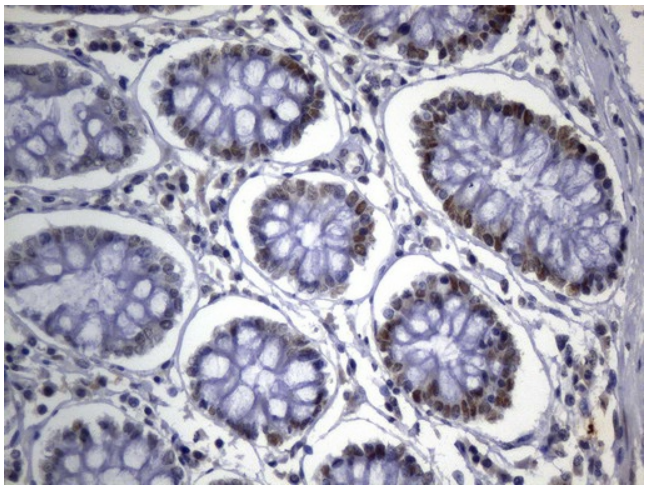
## Product images:



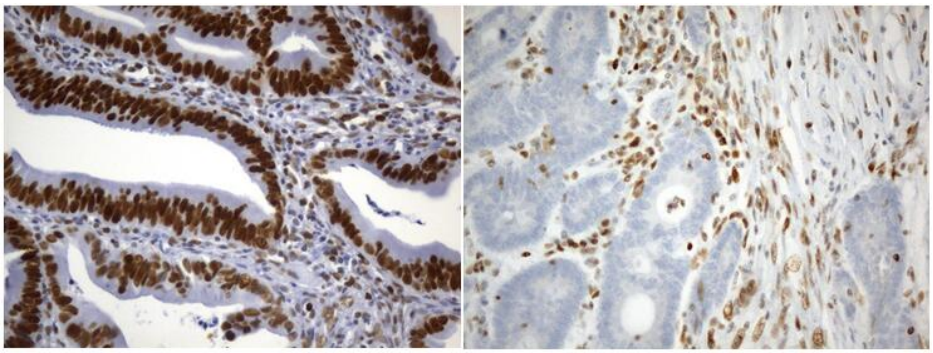
Immunohistochemical staining of paraffin-embedded Human breast tissue within the normal limits using anti-MSH2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 min, UM800149) (1:2400)



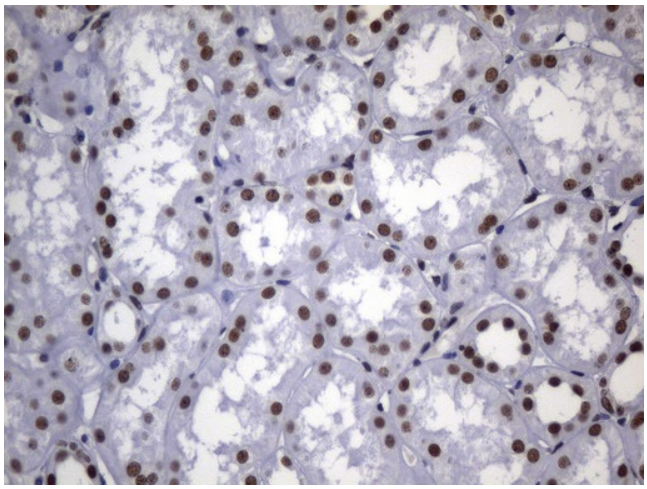
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue tissue using anti-MSH2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 min, UM800149) (1:2400)



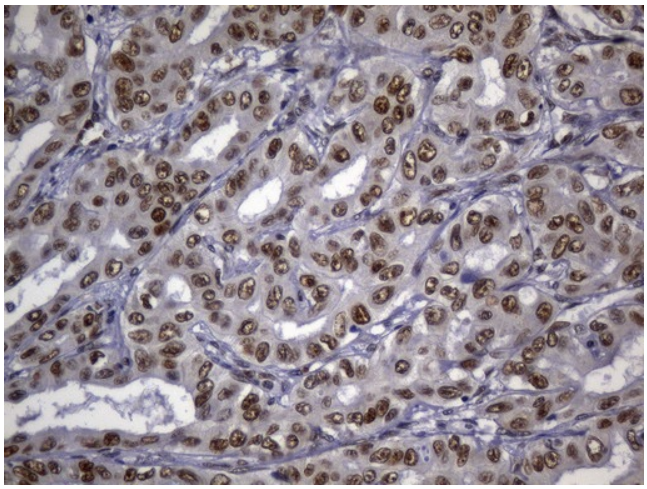
Immunohistochemical staining of paraffin-embedded Human colon tissue within the normal limits using anti-MSH2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 min, UM800149) (1:2400)



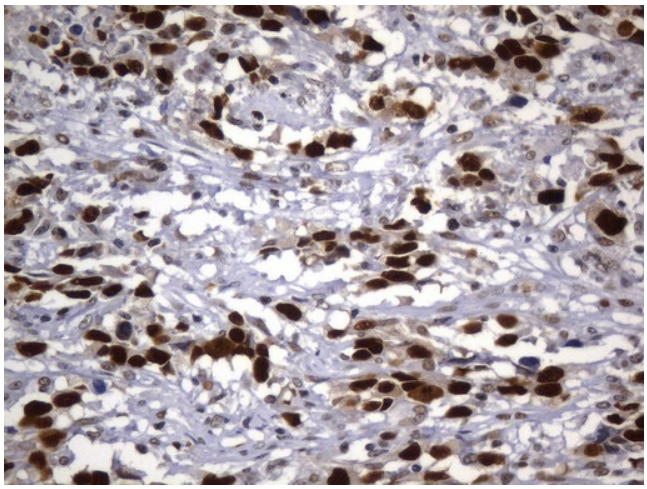
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-MSH2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 min, UM800149) (1:2400)



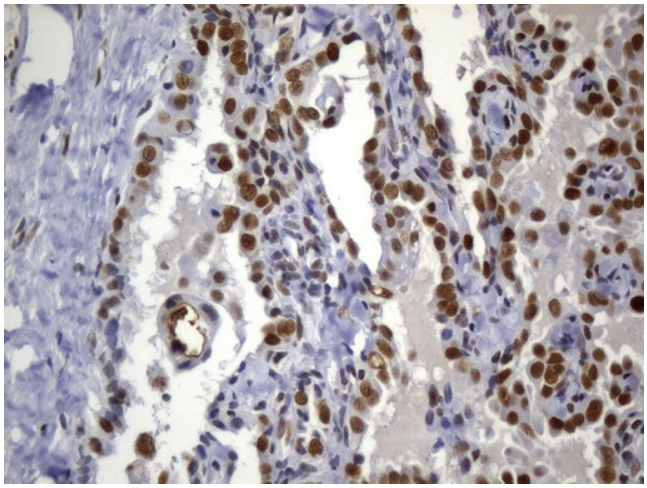
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-MSH2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 min, UM800149) (1:2400)



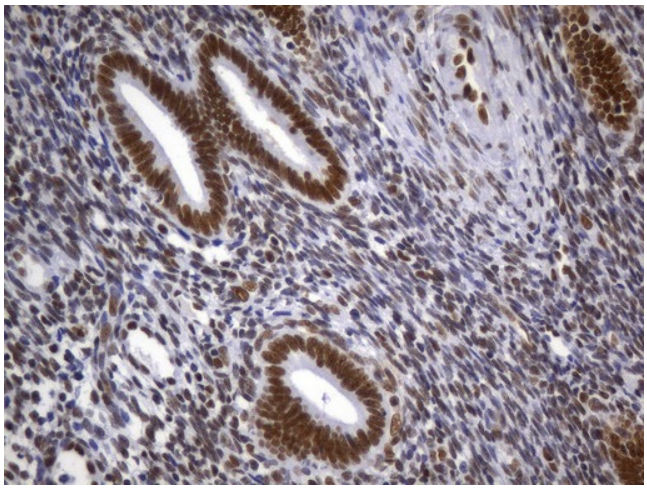
Immunohistochemical staining of paraffin-embedded Carcinoma of Human liver tissue using anti-MSH2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 min, UM800149) (1:2400)



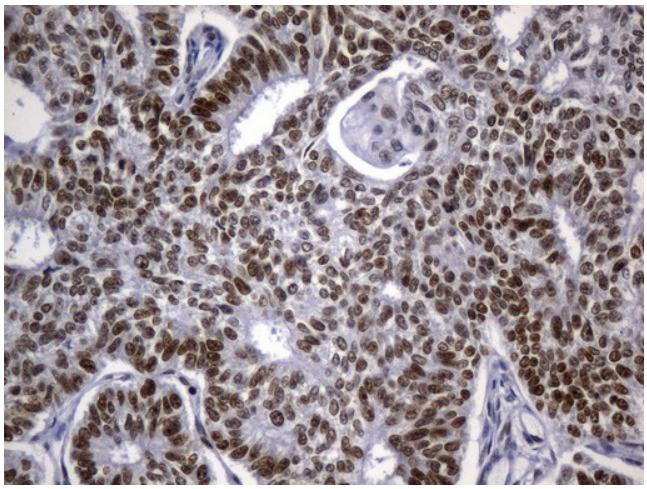
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-MSH2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 min, UM800149) (1:2400)



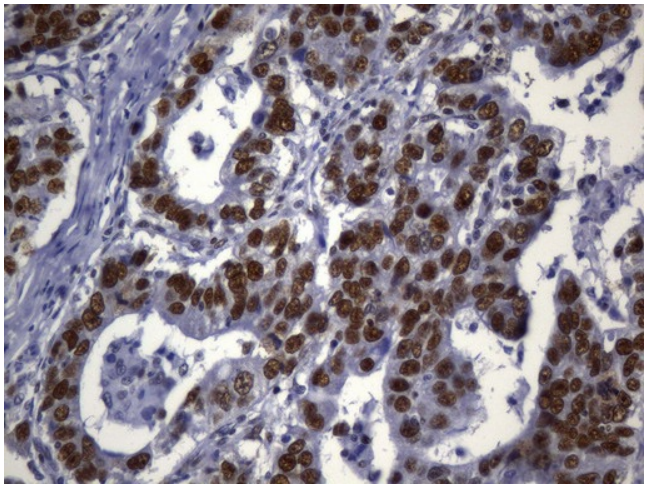
Immunohistochemical staining of paraffin-embedded Carcinoma of Human thyroid tissue using anti-MSH2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 min, UM800149) (1:2400)



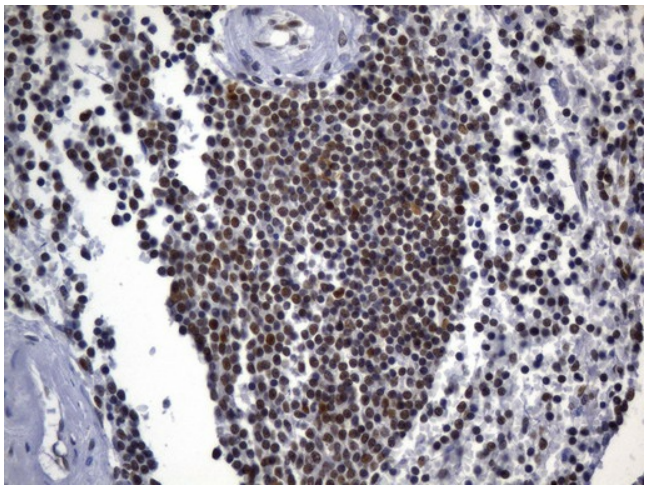
Immunohistochemical staining of paraffin-embedded Human endometrium tissue within the normal limits using anti-MSH2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 min, UM800149) (1:2400)



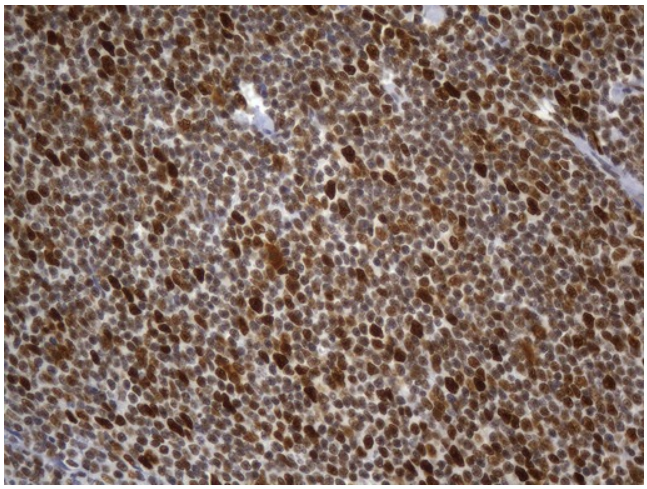
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-MSH2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 min, UM800149) (1:2400)



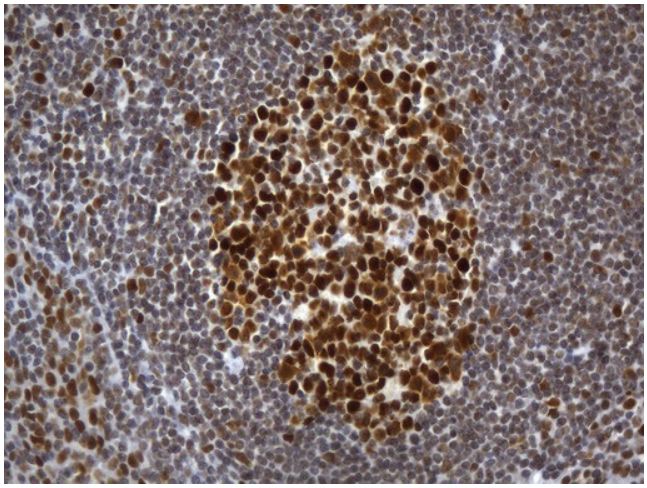
Immunohistochemical staining of paraffin-embedded Carcinoma of Human bladder tissue using anti-MSH2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 min, UM800149) (1:2400)



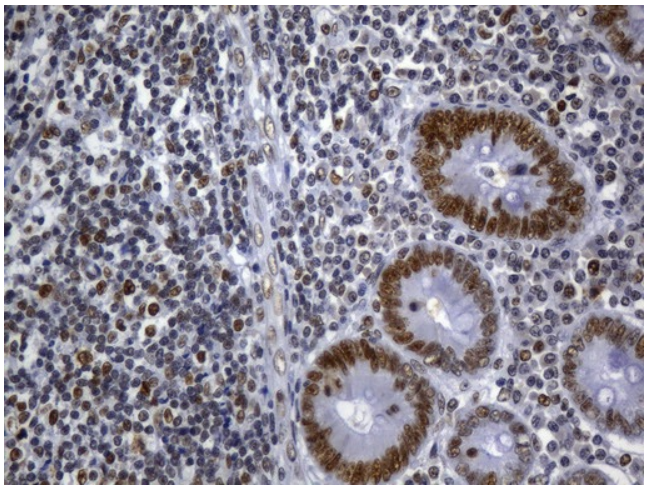
Immunohistochemical staining of paraffin-embedded Human lymph node tissue within the normal limits using anti-MSH2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 min, UM800149) (1:2400)



Immunohistochemical staining of paraffin-embedded Human lymphoma tissue using anti-MSH2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 min, UM800149) (1:2400)



Immunohistochemical staining of paraffin-embedded Human tonsil within the normal limits using anti-MSH2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 min, UM800149) (1:2400)



Immunohistochemical staining of paraffin-embedded Human appendix tissue within the normal limits using anti-MSH2 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.0) at 120°C for 2.5 min, UM800149) (1:2400)