10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-MSH3 Antibody

Rabbit polyclonal antibody to MSH3
Catalog # AP60340

Product Information

Application	WB, IHC
Primary Accession	P20585
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	127412

Additional Information

Gene ID	4437
Other Names	DUC1; DUG; DNA mismatch repair protein Msh3; hMSH3; Divergent upstream protein; DUP; Mismatch repair protein 1; MRP1
Target/Specificity	Recognizes endogenous levels of MSH3 protein.
Dilution	WB~~WB (1/500 - 1/1000), IHC (1/100 - 1/200) IHC~~WB (1/500 - 1/1000), IHC (1/100 - 1/200)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

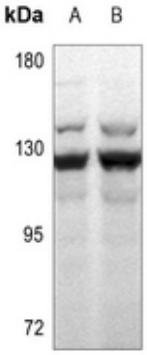
Protein Information

Name	MSH3
Synonyms	DUC1, DUG
Function	Component of the post-replicative DNA mismatch repair system (MMR). Heterodimerizes with MSH2 to form MutS beta which binds to DNA mismatches thereby initiating DNA repair. When bound, the MutS beta heterodimer bends the DNA helix and shields approximately 20 base pairs. MutS beta recognizes large insertion-deletion loops (IDL) up to 13 nucleotides long. After mismatch binding, 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.

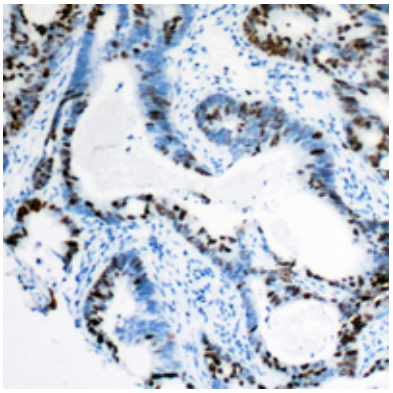
Background

KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human MSH3. The exact sequence is proprietary.

Images



Western blot analysis of MSH3 expression in A549 (A), MCF7 (B) whole cell lysates.



Immunohistochemical analysis of MSH3 staining in human colon cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.