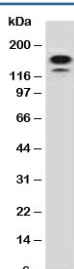


MSH6 Antibody [clone MTS6-1] (V7430)

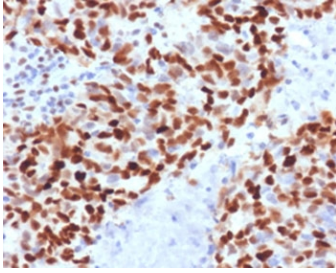
Catalog No.	Formulation	Size
V7430-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7430-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7430SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7430IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

[Bulk quote request](#)

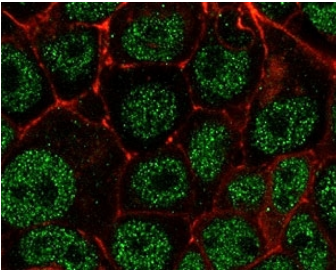
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	MTS6-1
Purity	Protein G affinity chromatography
UniProt	P52701
Localization	Nuclear
Applications	Flow Cytometry : 1-2ug/10 ⁶ cells Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml Prediluted IHC Only Format : incubate for 30 min at RT (1)
Limitations	This MSH6 antibody is available for research use only.



Western blot testing of human HeLa lysate with MSH6 antibody (clone MTS6-1).
Expected molecular weight: 120-160 kDa depending on phosphorylation level.



IHC staining of FFPE human colon carcinoma with MSH6 antibody (clone MTS6-1).
HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.



Immunofluorescent staining of permeabilized human MCF7 cells with MSH6 antibody (green, clone MTS6-1) and Phalloidin (red).

Description

MSH6 is a component of the post-replicative DNA mismatch repair system (MMR). Heterodimerizes with MSH2 to form MutS alpha, which binds to DNA mismatches thereby initiating DNA repair. When bound, MutS alpha bends the DNA helix and shields approximately 20 base pairs, and recognizes single base mismatches and dinucleotide insertion-deletion loops (IDL) in the DNA. 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. [UniProt]

Application Notes

The stated application concentrations are suggested starting points. Titration of the MSH6 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

A portion of amino acids 374-540 from the human protein were used as the immunogen for this MSH6 antibody.

Storage

Store the MSH6 antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide).