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DM429 Monoclonal Antibody to MSH6 - Supernatant

Alternate names: DNA mismatch repair protein Msh6, G/T mismatch-binding protein, GTBP, MutS-alpha

160 kDa subunit, p160

Quantity: 1 ml

Background: An alteration of microsatellite repeats is the result of slippage owing to strand

misalignment during DNA replication and is referred to as microsatellite instability

(MSI). These defects in DNA repair pathways have been related human

carcinogenesis. Studies have shown the mutations of MLH-1, MSH2 and MSH6 genes contribute to the development of sporadic colorectal carcinoma. The repair of

mismatch DNA is essential to maintaining the integrity of genetic information over

time.

Uniprot ID: P52701

NCBI: NP 000170.1

GenelD: <u>2956</u>

Host / Isotype: Mouse / IgG1

Clone: 44

Immunogen: Synthetic human MSH6 peptide

Format: State: Liquid purified Ig fraction containing Sodium Azide as preservative.

Purification: Affinity Chromatography.

Applications: Immunoprecipitation.

Western Blot: 1/100-1/500.

Immunohistochemistry on Formalin-Fixed Paraffin Embedded Sections: 1/25-1/50 in an ABC method (30 to 60 minutes at room temperature (requires high temperature antigen unmasking with 10 mM citrate buffer, pH 6.0 prior to immunostaining).

Immunohistochemistry on Frozen Sections.

Recommended Positive Control: Tonsil, colon carcinoma

Other applications not tested. Optimal dilutions are dependent on conditions and

should be determined by the user.

Specificity: MSH6 is a heterodimer of MSH2 binds to DNA containing G/T mismatches.

The MSH2-MSH6 complex recognizes a single-based mispair insertion/deletion loop.

Cellular Localization: Nuclear.

Species: Human, Mouse, Rat and Dog.

Other species not tested.

Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for

longer.

Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings: 1. Frasno et al. Mod Pathol 11: 934, 1998.

2. Schleger et al. Exp Cell Res 236: 418, 1997.



Pictures:

Figure 1. Immunohistochemical staining of human colon carcinoma using anti-MSH6 antibody DM429.

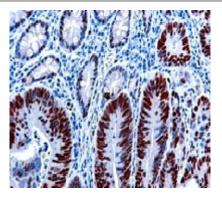


Figure 1. Western blot analysis of human lung cell extract with MSH6 antibody DM429.

