

Datasheet for ABIN6939580  
**anti-MSH6 antibody (AA 374-540)**

## 7 Images

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## Overview

Quantity:	100 µg
Target:	MSH6
Binding Specificity:	AA 374-540
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This MSH6 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF), Coating (Coat), Flow Cytometry (FACS), Staining Methods (StM)

## Product Details

Immunogen:	Recombinant fragment of human MSH6 protein (around aa 374-540) (exact sequence is proprietary)
Clone:	MSH6-3086
Isotype:	IgG2b kappa
Purification:	Purified by Protein A/G

## Target Details

Target:	MSH6
Alternative Name:	MSH6 ( <a href="#">MSH6 Products</a> )

## Target Details

Background:	The finding that mutations in DNA mismatch repair genes are associated with hereditary nonpolyposis colorectal cancer (HNPCC) has resulted in considerable interest in the understanding of the mechanism of DNA mismatch repair. Initially, inherited mutations in the MSH2 and MLH1 homologs of the bacterial DNA mismatch repair genes mutS and mutL were demonstrated at high frequency in HNPCC and were shown to be associated with microsatellite instability. A member of the mismatch repair family, GTBP (also designated MSH6), is an MSH2-related protein that binds to DNA containing G/T mismatches. Findings suggest that the mismatch-binding factor in human cells is composed of a heterodimer of GTBP and MSH2.
Molecular Weight:	163kDa
Gene ID:	2956
UniProt:	<a href="#">P52701</a>
Pathways:	<a href="#">DNA Damage Repair</a> , <a href="#">Chromatin Binding</a> , <a href="#">Production of Molecular Mediator of Immune Response</a>

## Application Details

Application Notes:	Positive Control: HCT116 or HeLa cell lysate (WB). Human colon carcinoma (IHC). Known Application: ELISA (For coating, order Ab without BSA), ,Flow Cytometry (1-2 µg/million cells), Immunofluorescence (1-2 µg/mL), Western Blot (1-2 µg/mL),Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT),(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

## Handling

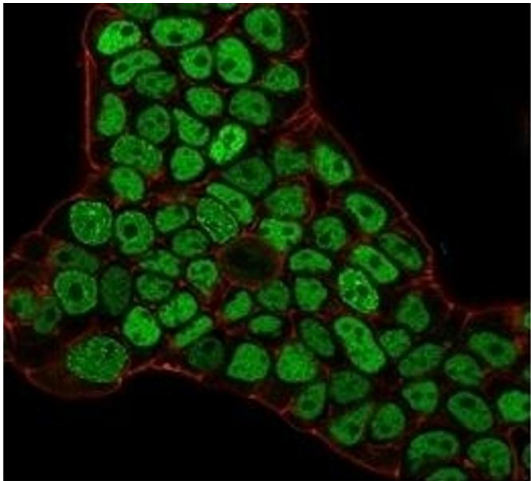
Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C

Handling

Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months

Images

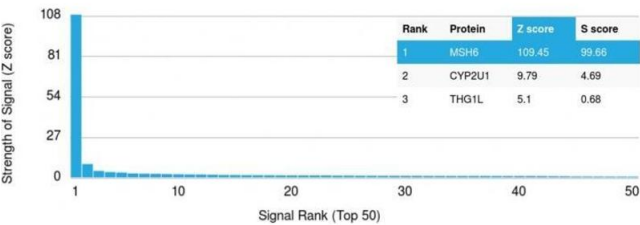


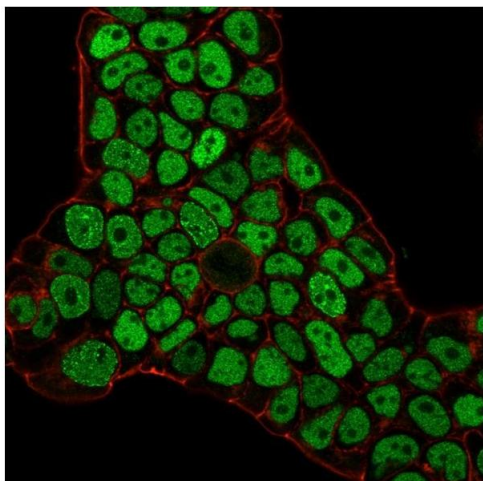
Immunofluorescence

**Image 1.** Immunofluorescence staining of PFA-fixed MCF-7 cells with MSH6 Mouse Monoclonal Antibody (MSH6/3086) followed by goat anti-mouse IgG-CF488 (green). Nuclei labeled with RedDot.

Protein Array

**Image 2.** Analysis of Protein Array containing >19,000 full-length human proteins using MSH6 Mouse Monoclonal Antibody (MSH6/3086) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SDs) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SDs) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.





#### Flow Cytometry

**Image 3.** Flow Cytometric Analysis of PFA-fixed MCF-7 cells using MSH6 Mouse Monoclonal Antibody (MSH6/3086) followed by goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).

Please check the [product details page](#) for more images. Overall 7 images are available for ABIN6939580.