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anti-MSH6 antibody (Internal Region)

4 Images



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Overview

Quantity:	100 μL
Target:	MSH6
Binding Specificity:	Internal Region
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MSH6 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)
Product Details	
Immunogen:	A synthesized peptide derived from human MSH6, corresponding to a region within the internal amino acids.
Isotype:	IgG
Specificity:	MSH6 Antibody detects endogenous levels of total MSH6.
Predicted Reactivity:	Pig,Bovine,Horse,Sheep,Rabbit,Dog
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink TM Coupling Resin (Thermo Fisher Scientific).

Target Details

Target: MSH6

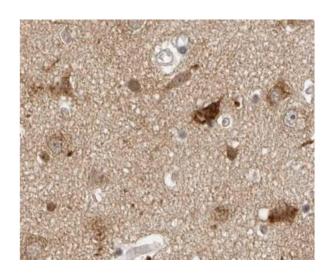
Target Details

Alternative Name:	MSH6 (MSH6 Products)
Background:	Description: 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. ATP binding and hydrolysis play a
	pivotal role in mismatch repair functions. The ATPase activity associated with MutS alpha
	regulates binding similar to a molecular switch: mismatched DNA provokes ADP>ATP
	exchange, resulting in a discernible conformational transition that converts MutS alpha into a
	sliding clamp capable of hydrolysis-independent diffusion along the DNA backbone. This
	transition is crucial for mismatch repair. MutS alpha may also play a role in DNA homologous
	recombination repair. Recruited on chromatin in G1 and early S phase via its PWWP domain
	that specifically binds trimethylated 'Lys-36' of histone H3 (H3K36me3): early recruitment to
	chromatin to be replicated allowing a quick identification of mismatch repair to initiate the DNA
	mismatch repair reaction.
	Gene: MSH6
Molecular Weight:	153kDa
Gene ID:	2956
UniProt:	P52701
Pathways:	DNA Damage Repair, Chromatin Binding, Production of Molecular Mediator of Immune
	Response
Application Details	
Application Notes:	WB 1:500-1:2000, IHC 1:50-1:200, IF/ICC 1:100-1:500, ELISA(peptide) 1:20000-1:40000
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 %

Handling

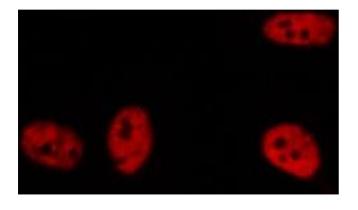
	glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.
Expiry Date:	12 months

Images



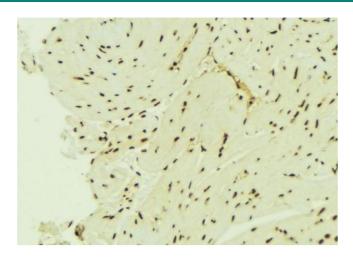
Immunohistochemistry

Image 1. ABIN6276435 at 1/100 staining human brain tissues sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 74;ã



Immunofluorescence (fixed cells)

Image 2. ABIN6276435 staining HuvEc cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25¡ãC. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37¡ãC. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody(Cat.# S0006), diluted at 1/600, was used as secondary antibod



Immunohistochemistry

Image 3. ABIN6276435 at 1/100 staining Mouse brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at $22_{\rm i}$ aC. An HRP conjugated goat anti-rabbit antibody was used as the secondary

Please check the product details page for more images. Overall 4 images are available for ABIN6263386.