9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

36-2801: Anti-MSH2 (DNA Mismatch Repair Marker) Monoclonal Antibody(Clone: MSH2/2622)

Clonality :	Monoclonal
Clone Name :	MSH2/2622
Application :	FACS,IF,WB,IHC
Reactivity :	Human
Gene :	MSH2
Gene ID :	4436
Uniprot ID :	P43246
Alternative Name :	BAT26; COCA1; DNA mismatch repair protein Msh2; FCC1; hMSH2; HNPCC1; LCFS2; MSH2; MutS homolog 2; MutS homolog 2 colon cancer nonpolyposis type 1; MutS protein homolog 2
Isotype :	Mouse IgG1, kappa
Immunogen Information :	Recombinant fragment (around aa 327-427) of human MSH2 protein (exact sequence is proprietary)

Description

Mutations in DNA mismatch repair genes are associated with hereditary nonpolyposis colorectal cancer (HNPCC). Initially, inherited mutations in the MSH2 and MLH1 homologs of the bacterial DNA mismatch repair genes MutS and MutL were found at high frequency in HNPCC and were shown to be associated with microsatellite instability. The demonstration that 10 to 45% of pancreatic, gastric, breast, ovarian and small cell lung cancers also display microsatellite instability has been interpreted to sμggest that DNA mismatch repair is not restricted to HNPCC tumors but is a common feature in tumor initiation or progression.

Product Info

Amount :	20 μg / 100 μg
Content :	200 μg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	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.

Application Note

Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml); Western Blot (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 min at RT) (Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);

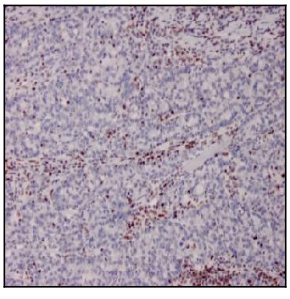

Fig. 1: Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with MSH2 Mouse Monoclonal Antibody (MSH2/2622).

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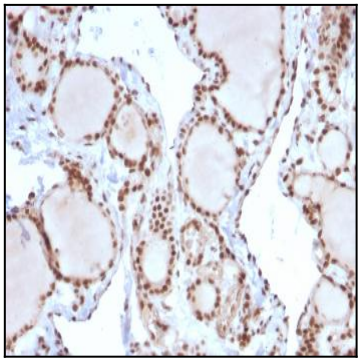

Fig. 2: Formalin-fixed, paraffin-embedded human Thyroid Carcinoma stained with MSH2 Mouse Monoclonal Antibody (MSH2/2622).

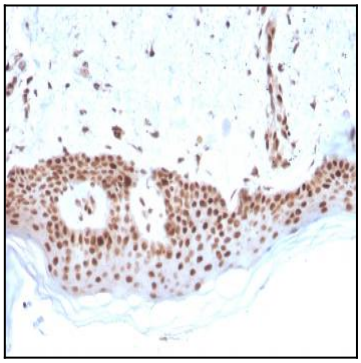

Fig. 3: Formalin-fixed, paraffin-embedded human Basal Cell Carcinoma stained with MSH2 Mouse Monoclonal Antibody (MSH2/2622).

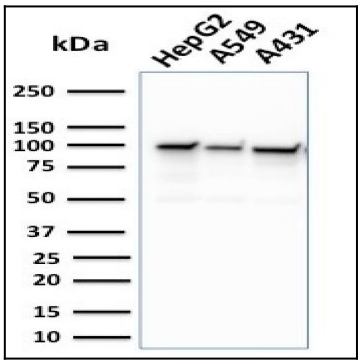

Fig. 4: Western Blot Analysis of human HepG2, A549, and A431 cell lysate using MSH2 Mouse Monoclonal Antibody (MSH2/2622).

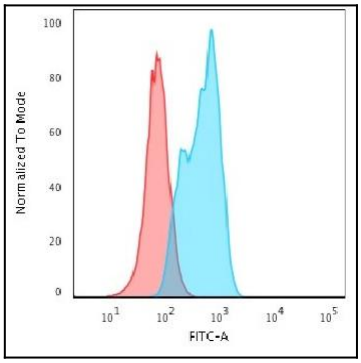

Fig. 5: Flow Cytometric Analysis of A549 cells using MSH2 Mouse Monoclonal Antibody (MSH2/2622) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).

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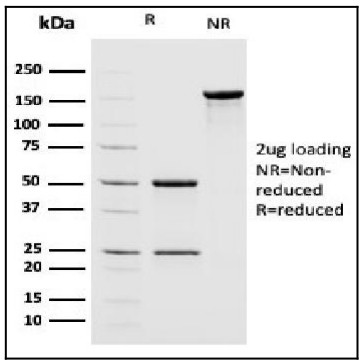

Fig. 6: SDS-PAGE Analysis of Purified MSH2 Mouse Monoclonal Antibody (MSH2/2622). Confirmation of Purity and Integrity of Antibody

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