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EB06321 - Goat Anti-SMUG1 Antibody

Size: 100µg specific antibody in 200µl

Target Protein

Principal Names: SMUG1, single-strand selective monofunctional uracil DNA glycosylase, FDG, HMUDG, UNG3, single-strand-selective monofunctional uracil-DNA glycosylase 1, MGC104370
Official Symbol: SMUG1
Accession Number(s): NP_055126.1; NP_001230718.1; NP_001338187.1; NP_001338190.1
Human GeneID(s): 23583

Immunogen

Peptide with sequence PQAFLLGSIHEPA-C, from the N Terminus of the protein sequence according to NP_055126.1; NP_001230718.1; NP_001338187.1; NP_001338190.1.

Please note the peptide is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

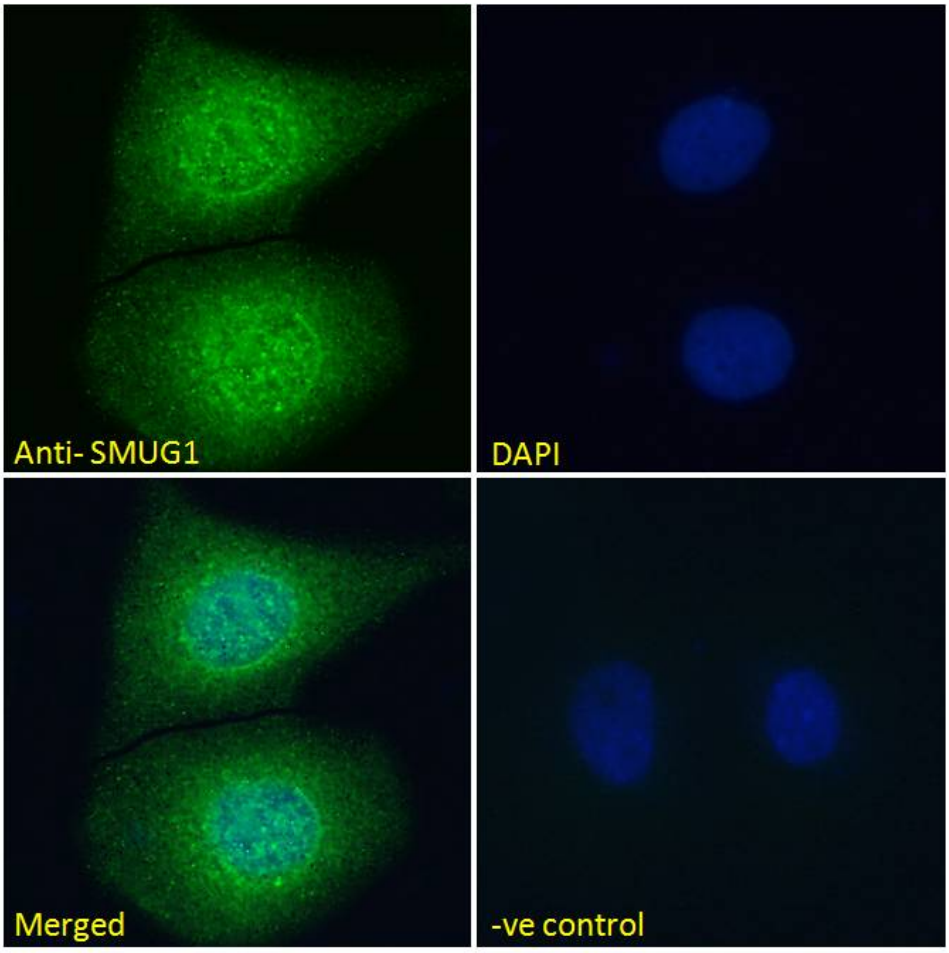
Peptide ELISA: antibody detection limit dilution 1:128000.
Western blot: Preliminary testing showed a band at approx 19kDa in lysate of cell line HeLa after 0.1µg/ml antibody staining (calculated MW of 19.6kDa according to NP_001230718.1);. Primary incubation 1 hour at room temperature.

Immunofluorescence: Strong expression of the protein seen in the nuclei of MCF7 and U205 cells. Recommended concentration: 10µg/ml.

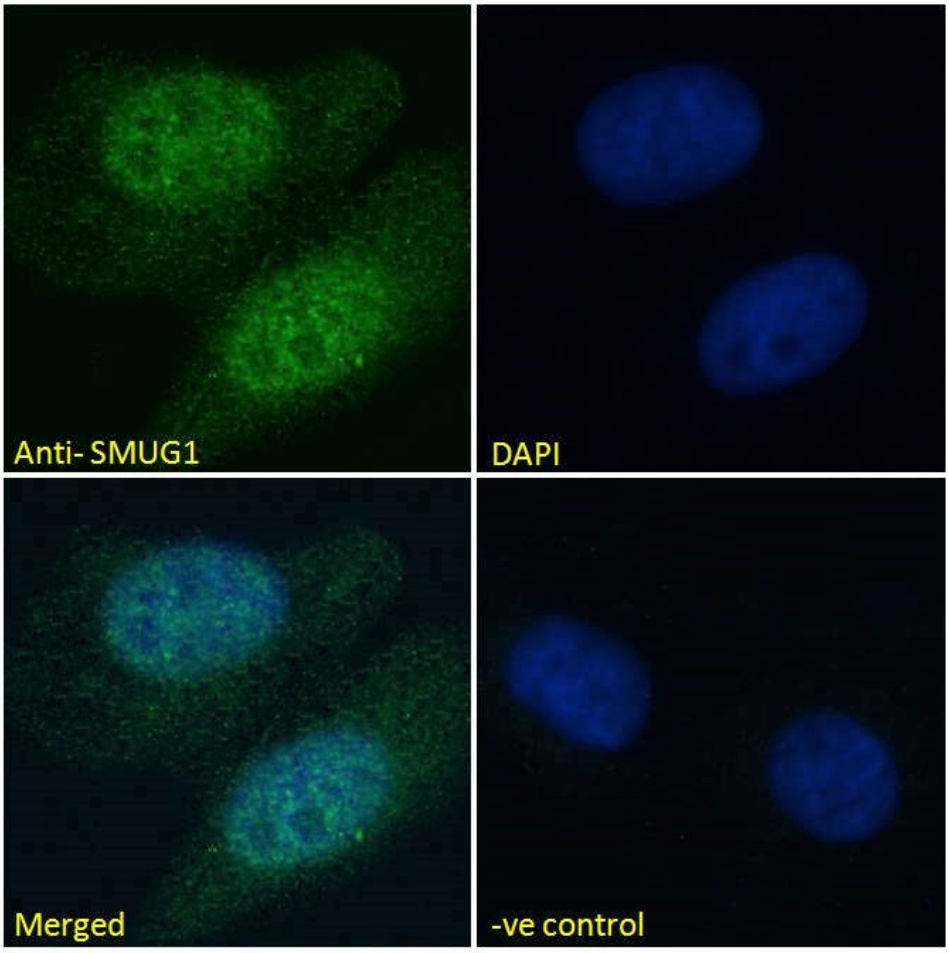
Flow Cytometry: Flow cytometric analysis of MCF7 cells. Recommended concentration: 10ug/ml.

Species Reactivity

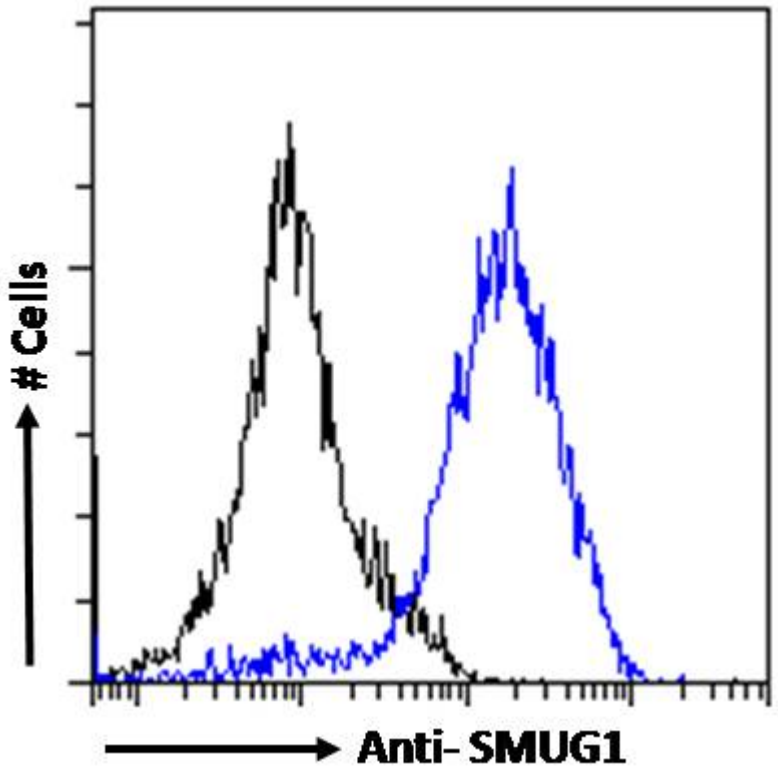
Tested: Human
Expected from sequence similarity: Human



EB06321 Immunofluorescence analysis of paraformaldehyde fixed MCF7 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing strong nuclear and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB06321 Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing strong nuclear staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB06321 Flow cytometric analysis of paraformaldehyde fixed MCF7 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.