

## International Office

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**Research Use Only. Not for  
diagnostic or therapeutic use.**

## 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 PQAFLGSIHEPA-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.

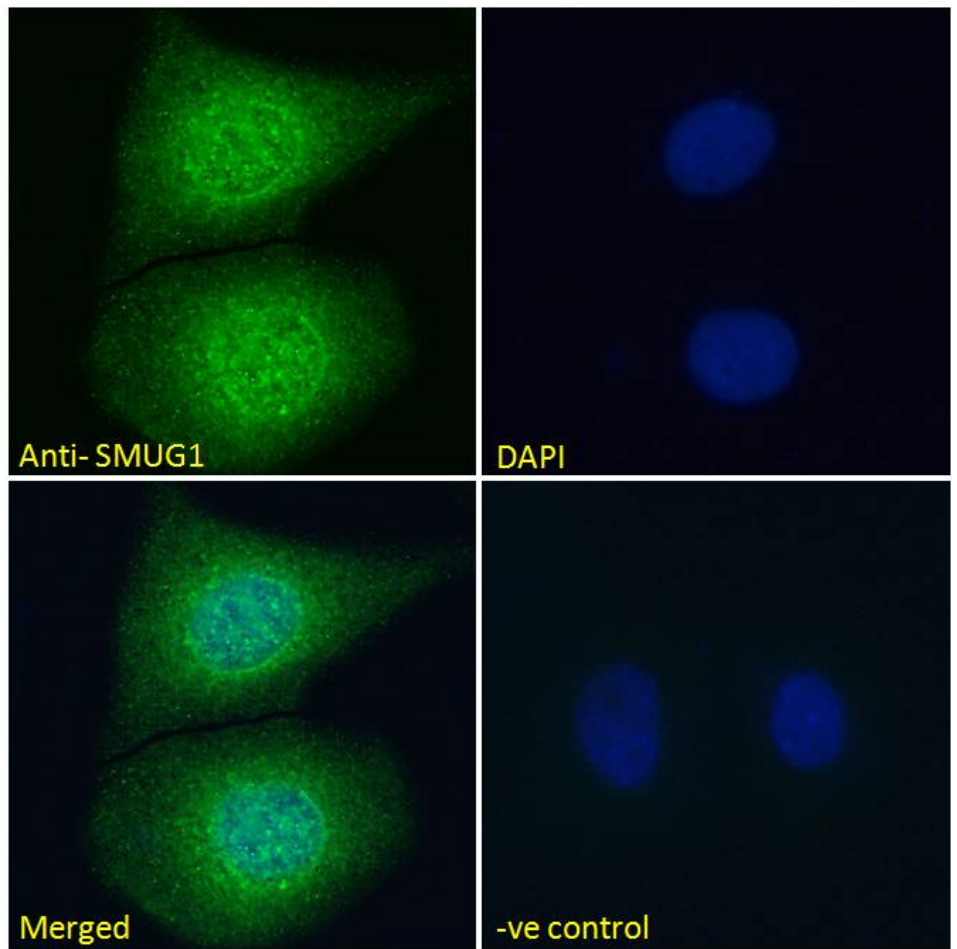
**Immunofluorescence:** Strong expression of the protein seen in the nuclei of MCF7 and U205 cells. Recommended concentration: 10µg/ml.

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

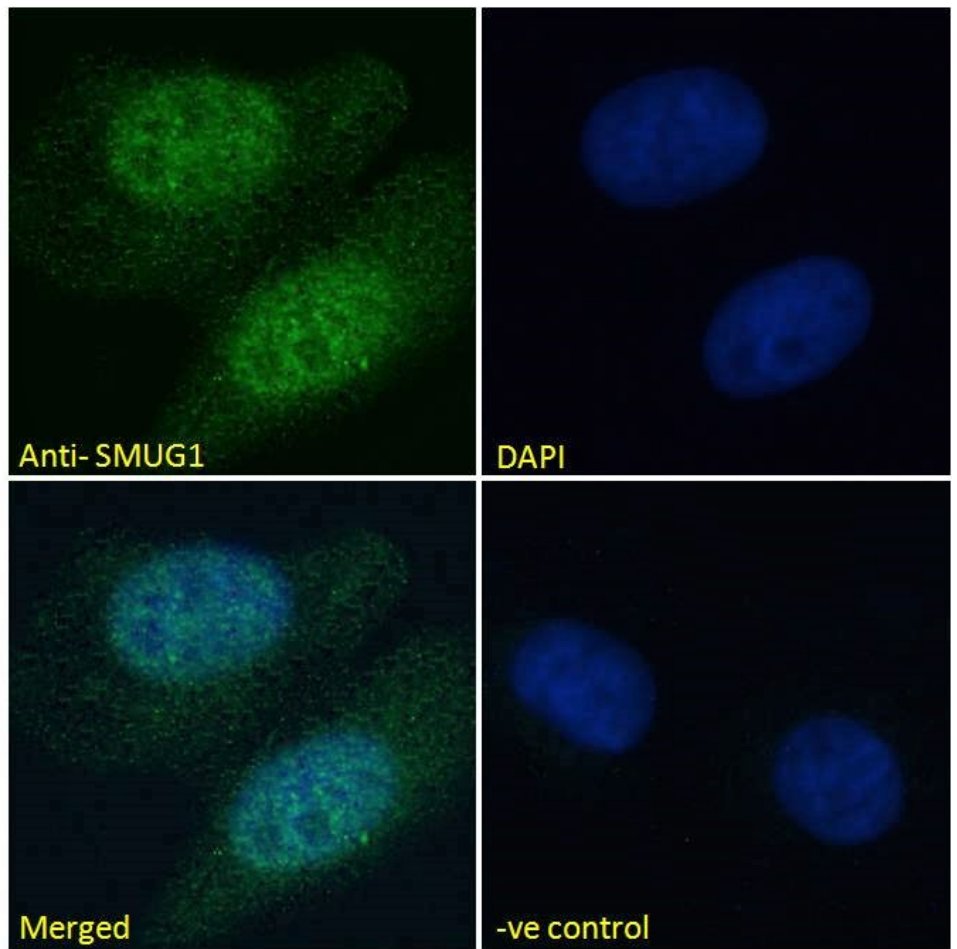
### Species Reactivity

**Tested:** Human

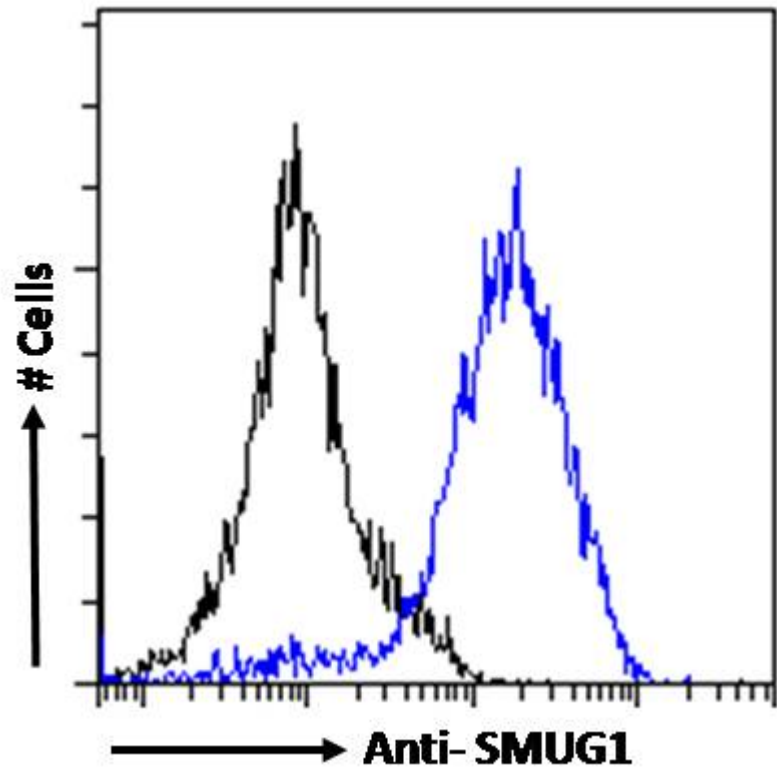
**Expected from sequence similarity:** Human



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.