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# EB08387 - Goat Anti-NOVA1 Antibody

Size: 100µg specific antibody in 200µl

## Target Protein

**Principal Names:** NOVA1, neuro-oncological ventral antigen 1, Nova-1, paraneoplastic Ri antigen, ventral neuron-specific protein 1
**Official Symbol:** NOVA1
**Accession Number(s):** NP_002506.2 ; NP_006480.2 ; NP_006482.1; NP_001353321.1; NP_001353322.1; NP_001353323.1
**Human GeneID(s):** 4857
**Important Comments:** This antibody is expected to recognise all reported isoforms listed.

## Immunogen

Peptide with sequence C-REMPQNVAKTEPVS, from the internal region of the protein sequence according to NP_002506.2 ; NP_006480.2 ; NP_006482.1; NP_001353321.1; NP_001353322.1; NP_001353323.1.

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

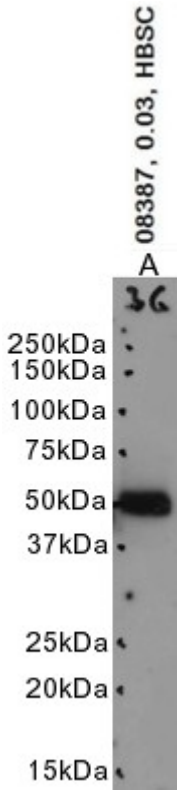
**Peptide ELISA:** antibody detection limit dilution 1:64000.
**Western blot:** Approx. 50-55kDa band observed in Human Breast Cancer lysates, and in preliminary testing of Human Kidney lysate (calculated MW of 51.7kDa according to NP_002506.2). Recommended concentration: 0.01-0.03µg/ml. Primary incubation 1 hour at room temperature.
**IHC:** Paraffin embedded Human Brain (Cortex) and Heart. Recommended concentration: 5µg/ml.

**Immunofluorescence:** Strong expression of the protein seen in the nuclei of U2OS cells. Recommended concentration: 10µg/ml.

**Flow Cytometry:** Flow cytometric analysis of U2OS cells. Recommended concentration: 10ug/ml.

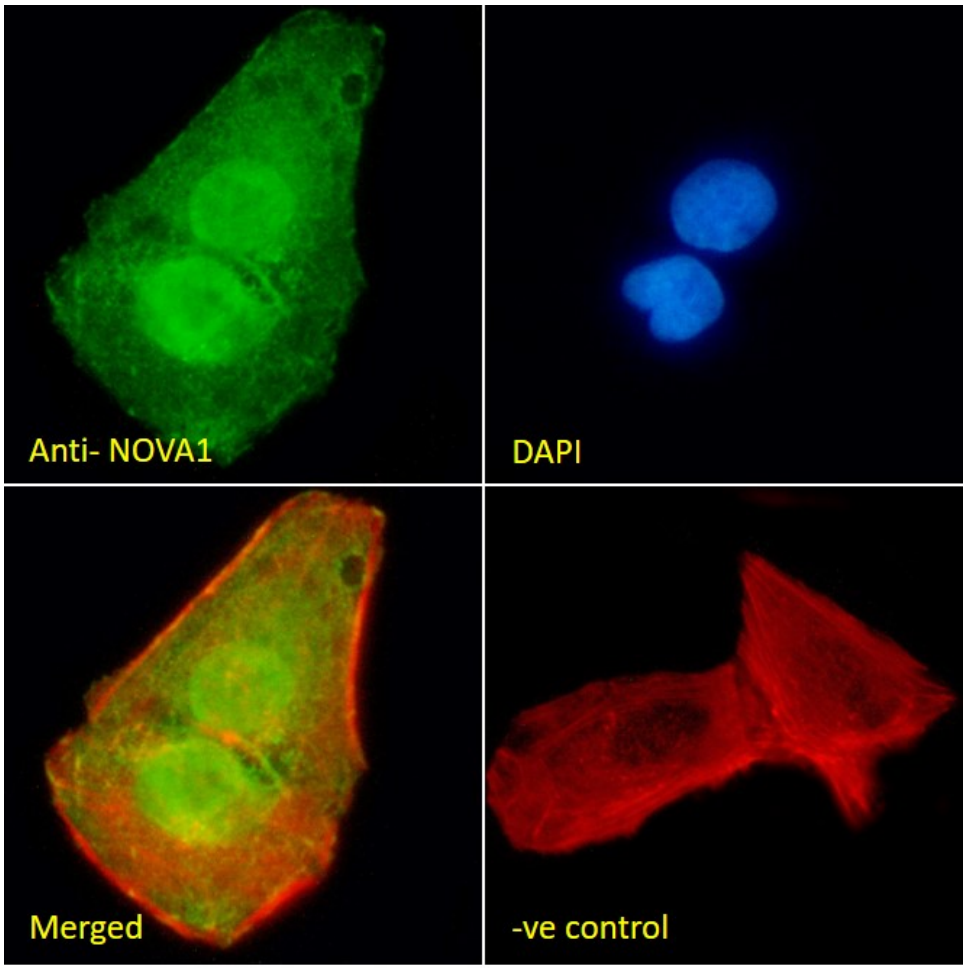
## Species Reactivity

**Tested:** Human
**Expected from sequence similarity:** Human, Mouse, Rat, Cow

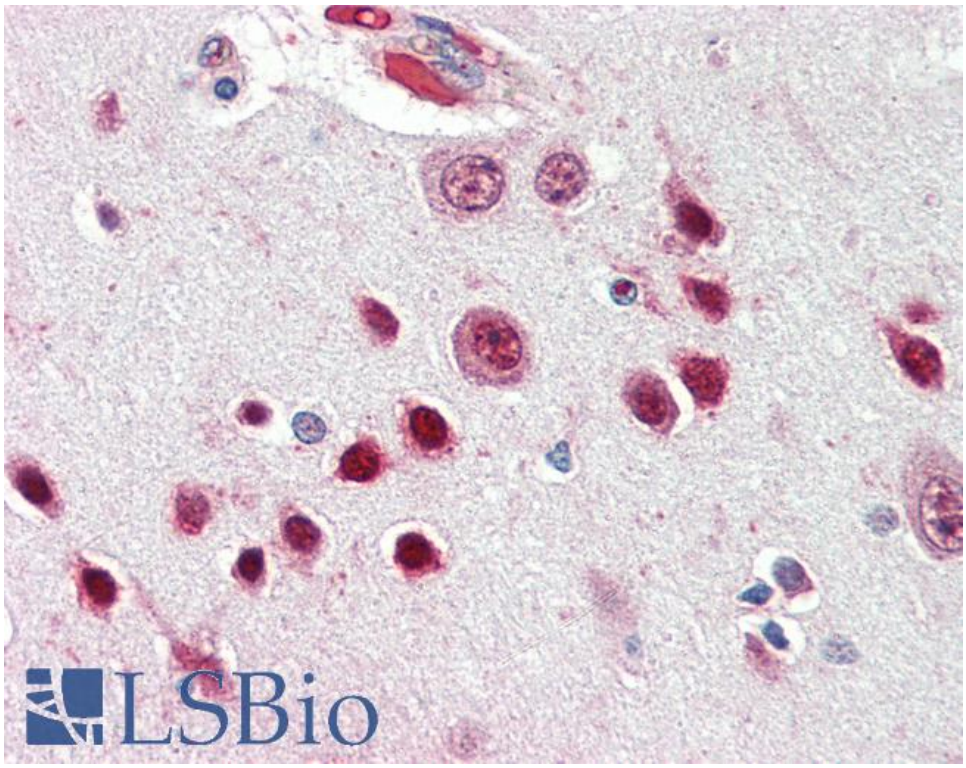



EB08387 optimised QC. Primary incubation 1 hour at room temperature.

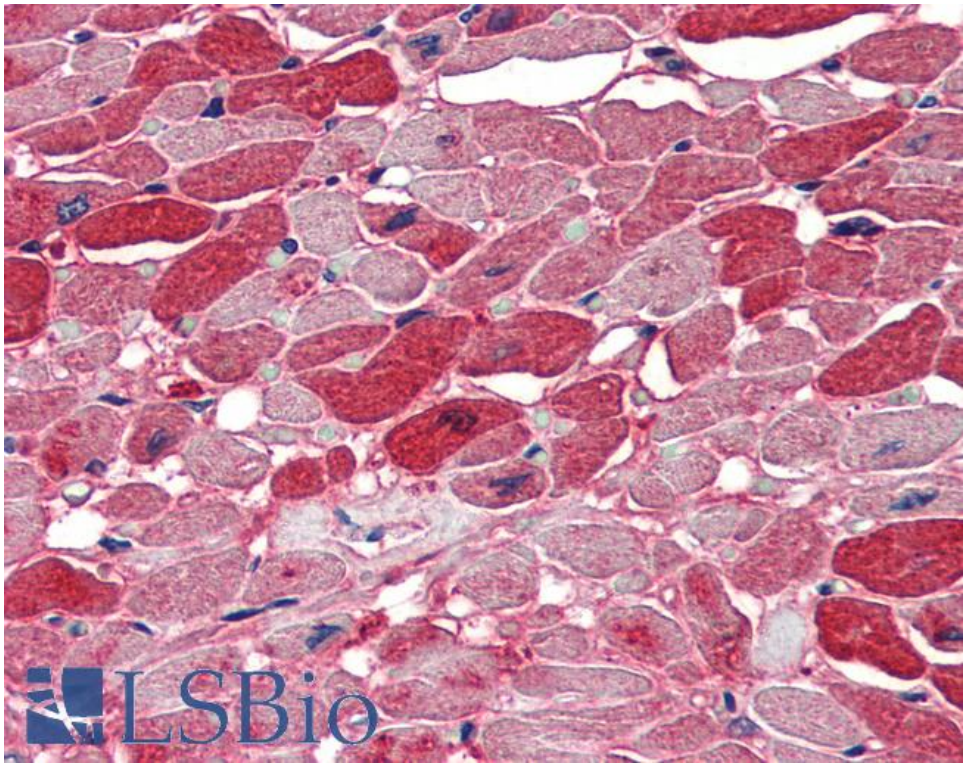
Image A: Human Breast Cancer lysate at primary Ab concentration 0.03µg/ml. (Loaded 35µg protein in RIPA buffer, per lane). Detected by chemiluminescence.



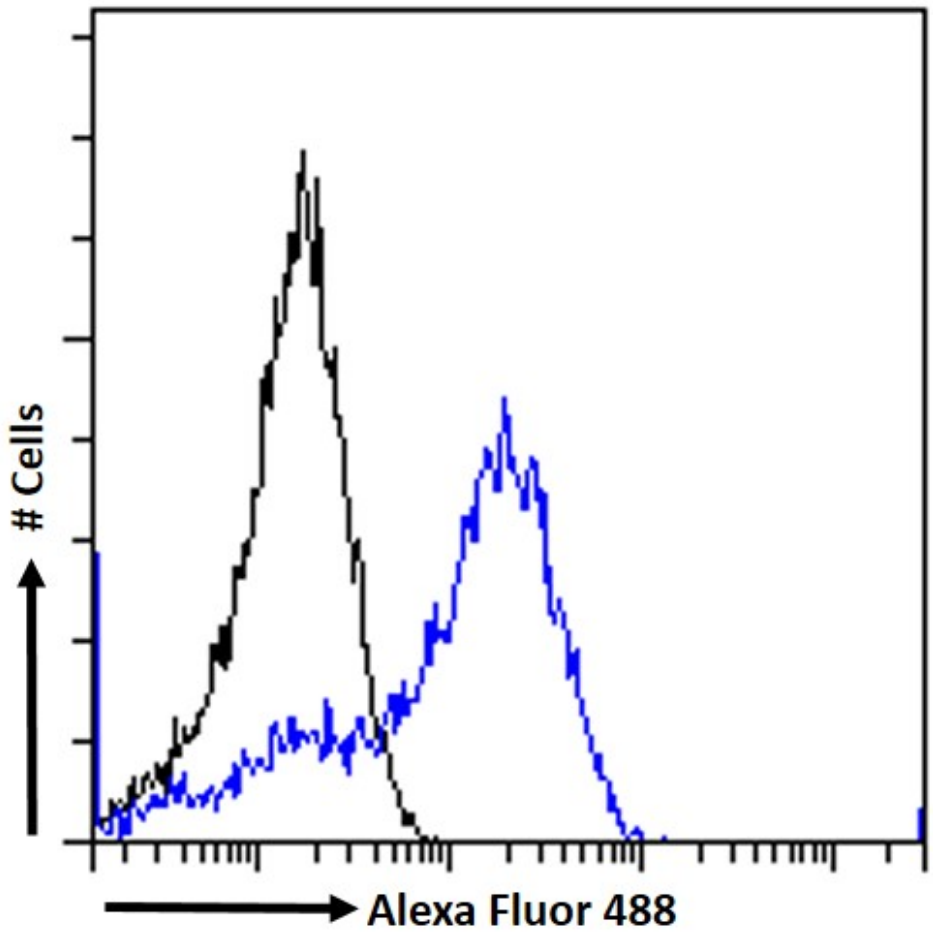

EB08387 Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing nuclear staining. Actin filaments were stained with phalloidin (red) and the nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB08387 (5µg/ml) staining of paraffin embedded Human Cortex. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.




EB08387 (5µg/ml) staining of paraffin embedded Human Heart. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.




EB08387 Flow cytometric analysis of paraformaldehyde fixed U2OS 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.