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

EB11207 - Goat Anti-Vimentin Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: FLJ36605, vimentin, VIM

Official Symbol: VIM

Accession Number(s): NP_003371.2

Human GeneID(s): [7431](#)

Non-Human GeneID(s): 22352 (mouse), 81818 (rat)

Immunogen

Peptide with sequence C-QVINETSQHDDLE, from the C Terminus of the protein sequence according to NP_003371.2.

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 1:4000.

Western blot: Approx 55kDa band observed in lysates of cell line HeLa and Jurkat and in Mouse Ovary lysates, and approx. 55-60kDa band in Rat Ovary lysates (calculated MW of 53.7kDa according to Human NP_003371.2, Mouse NP_035831.2 and Rat NP_112402.1). Recommended concentration: 0.1-2µg/ml. This antibody has been successfully used in WB on Human, PMID: 35769261.

IHC: Paraffin embedded Human Kidney. Recommended concentration: 5µg/ml.

Flow Cytometry: Flow cytometric analysis of HeLa cells. Recommended concentration: 10ug/ml. **Immunofluorescence:** Strong expression of the protein seen in the cytoplasm/intermediate filaments of U2OS cells. Recommended concentration: 5µg/ml.

This antibody has been successfully used in IF on Human:

<https://doi.org/10.1101/2021.05.04.442648>, and PMID: 35487944.

Additional validation: This antibody has been successfully used in the following paper: Sikorski et al. (2018) PMID: 30377371.

Species Reactivity

Tested: Human, Mouse, Rat

Expected from sequence similarity: Human, Mouse, Rat, Dog, Pig, Cow

Specific References

This antibody has been successfully used in WB on Human:

Irene Lois-Bermejo, Patricia González-Jiménez, Sofia Duarte, María A Pajares, Dolores Pérez-Sala

Vimentin Tail Segments Are Differentially Exposed at Distinct Cellular Locations and in Response to Stress

Front Cell Dev Biol. 2022 Jun 8;10:908263.

PMID: 35769261

This antibody has been successfully used in IF:

Vasiliki Lalioti, Silvia González-Sanz, Irene Lois-Bermejo, Patricia González-Jiménez, Álvaro Viedma-Poyatos, Andrea Merino, María A Pajares, Dolores Pérez-Sala

Cell surface detection of vimentin, ACE2 and SARS-CoV-2 Spike proteins reveals selective colocalization at primary cilia.

Sci Rep. 2022 Apr 29;12(1):7063.

PMID: 35487944

This antibody has been successfully used in IF on Human:

Vasiliki Lalioti, Silvia González-Sanz, Irene Lois-Bermejo, Patricia González-Jiménez, Álvaro Viedma

ORCID ProfileMaría A. Pajares, Dolores Pérez-Sala

Immunolocalization studies of vimentin and ACE2 on the surface of cells exposed to SARS-CoV-2 Spike proteins

(2021) <https://doi.org/10.1101/2021.05.04.442648>

PMID: 0

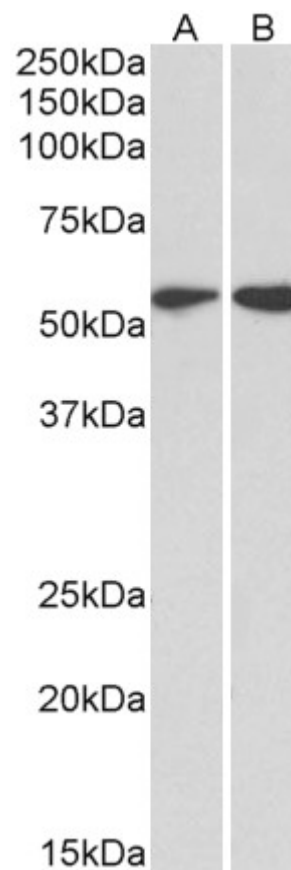
This antibody has been successfully used in the following paper:

Krzysztof Sikorski, Adi Mehta, Marit Inngjerdengen, Flourina Thakor, Simon Kling, Tomas Kalina, Tuula A. Nyman, Maria Ekman Stensland, Wei Zhou, Gustavo A. De Souza, Lars Holden, Jan Stuchly, Markus Templin and Fridtjof Lund-Johansen

A high-throughput pipeline for validation of antibodies

Nat Methods. 2018 Nov;15(11):909-912

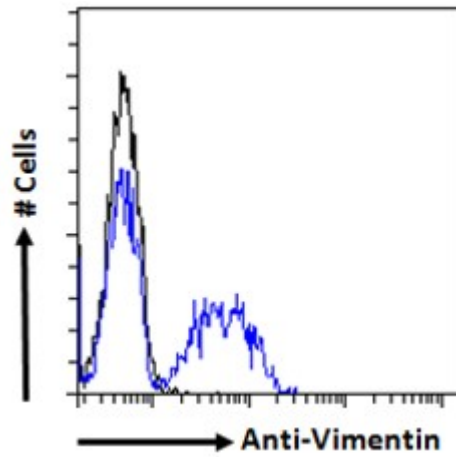
PMID: 30377371



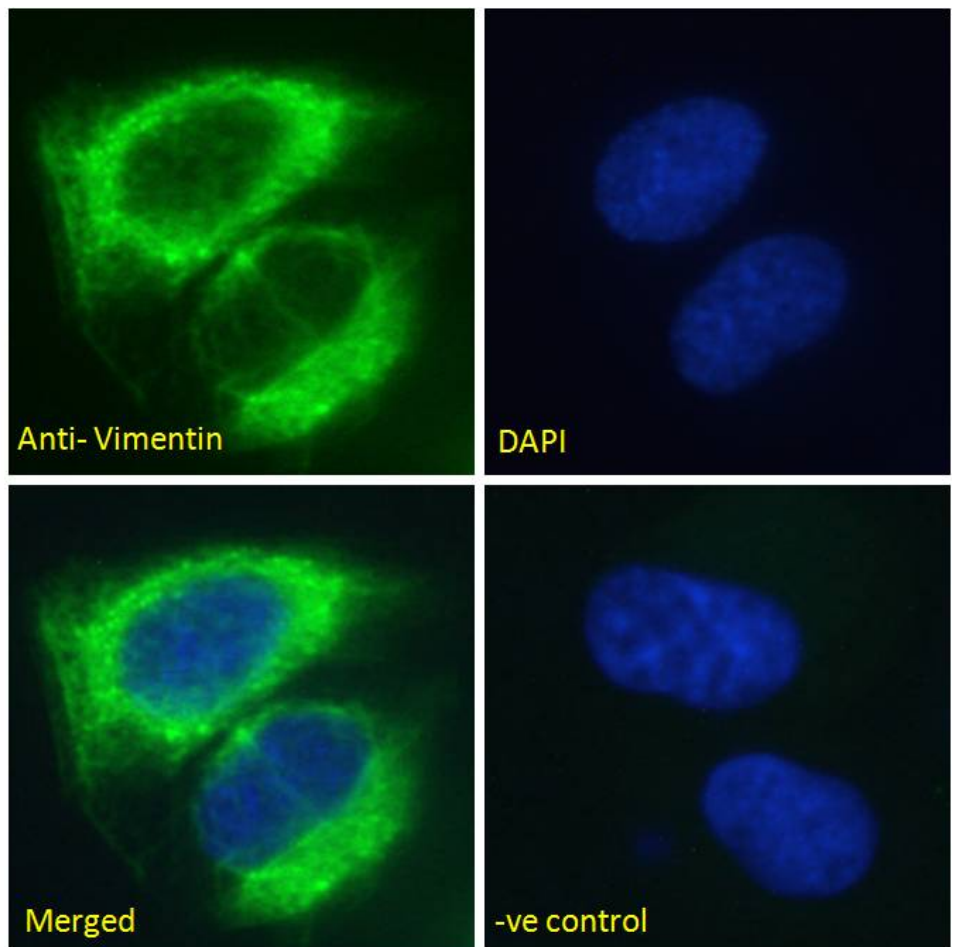
EB11207 (2 μ g/ml) staining of HeLa (A) and Jurkat (B) lysates (35 μ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



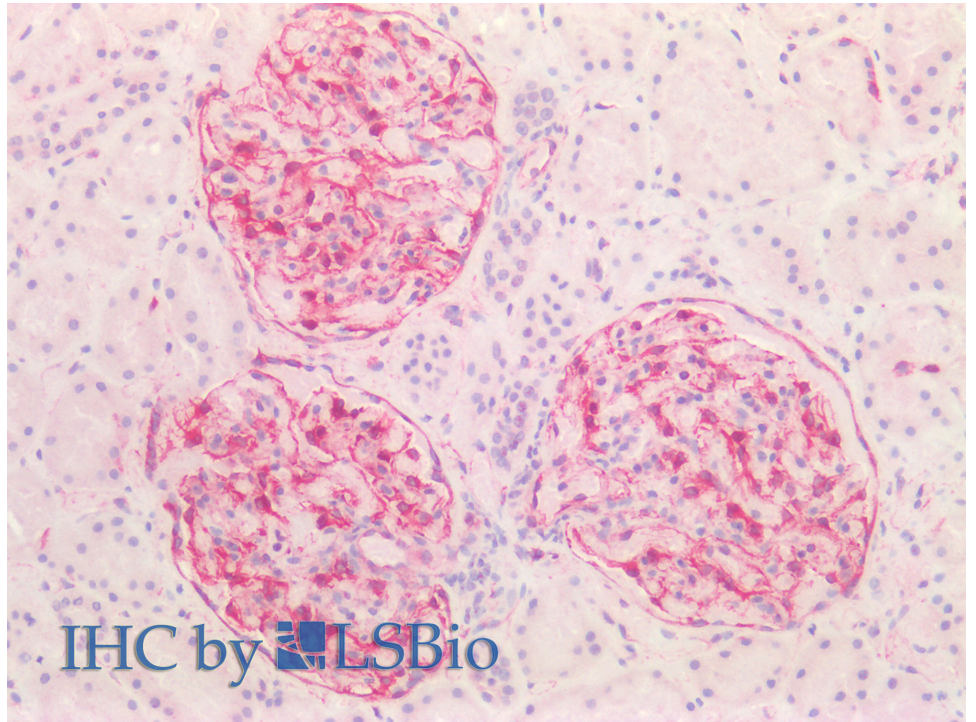
EB11207 (0.1 μ g/ml) staining of Mouse (A) and (2 μ g/ml) Rat (B) Ovary lysate (35 μ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



Flow cytometric analysis of paraformaldehyde fixed HeLa cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (0.4ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



EB11207 Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (5ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic/Intermediate filament staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (5ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB11207 (5µg/ml) staining of paraffin embedded Human Kidney. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.