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EB06745 - Goat Anti-Arrestin beta 2 Antibody

Size: 100µg specific antibody in 200µl

Target Protein

Principal Names: arrestin, beta 2, ARRB2, HGNC:712, ARB2, ARR2, DKFZp686L0365, arrestin beta 2, beta-arrestin 2, BARR2, arrestin 3, arrestin beta-2
Official Symbol: ARRB2
Accession Number(s): NP_004304.1; NP_945355.1; NP_001244257.1; NP_001244259.1; NP_001244260.1; NP_001316993.1
Human GeneID(s): 409
Non-Human GeneID(s): 216869 (mouse), 25388 (rat)
Important Comments: This antibody is expected to recognise reported isoforms 1, 2, 3, 5, 6 and 7. No crossreactivity is expected with Arrestin beta 1.

Immunogen

Peptide with sequence C-HDHIPLPRPQS, from the internal region of the protein sequence according to NP_004304.1; NP_945355.1; NP_001244257.1; NP_001244259.1; NP_001244260.1; NP_001316993.1.

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 45kDa band observed in lysates of cell lines A549 and U251 and in preliminary testing of KNRK cell lysate (calculated MW of 46.1kDa according to NP_004304.1 and 44.4kDa according to NP_945355.1) Recommended concentration: 0.5-1µg/ml. Primary incubation 1 hour at room temperature.

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

Flow Cytometry: Flow cytometric analysis of A549 cells. Recommended concentration: 10ug/ml.

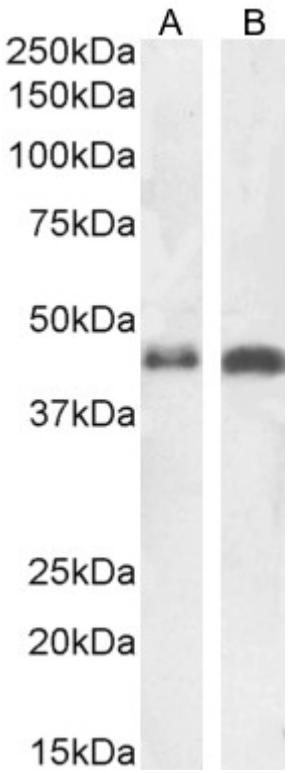
Species Reactivity

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

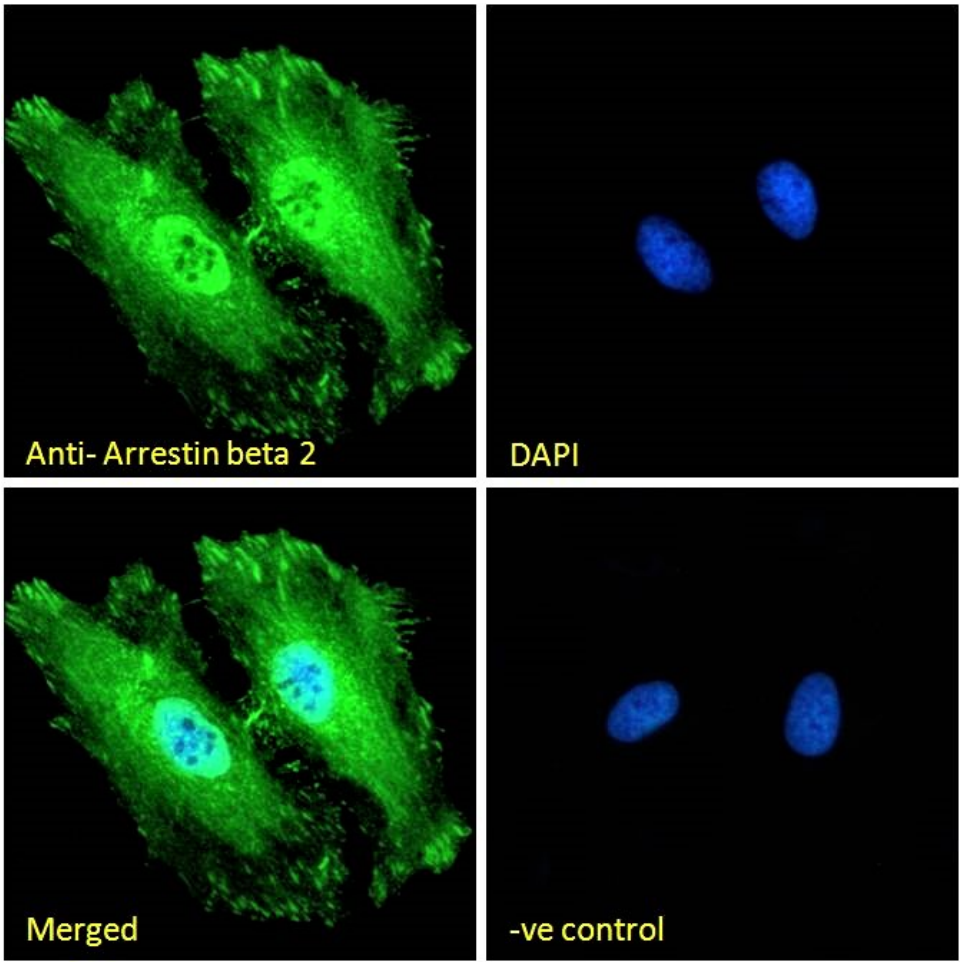
Specific References

This antibody (previous batch) has been successfully used in IP on Rat:
Zakrzewicz A, Krasteva G, Wilhelm J, Dietrich H, Wilker S, Padberg W, Wygrecka M, Grau V.
Reduced expression of arrestin beta 2 by graft monocytes during acute rejection of rat kidneys.
Immunobiology. 2011 Jul;216(7):854-61.
PMID: 21193245

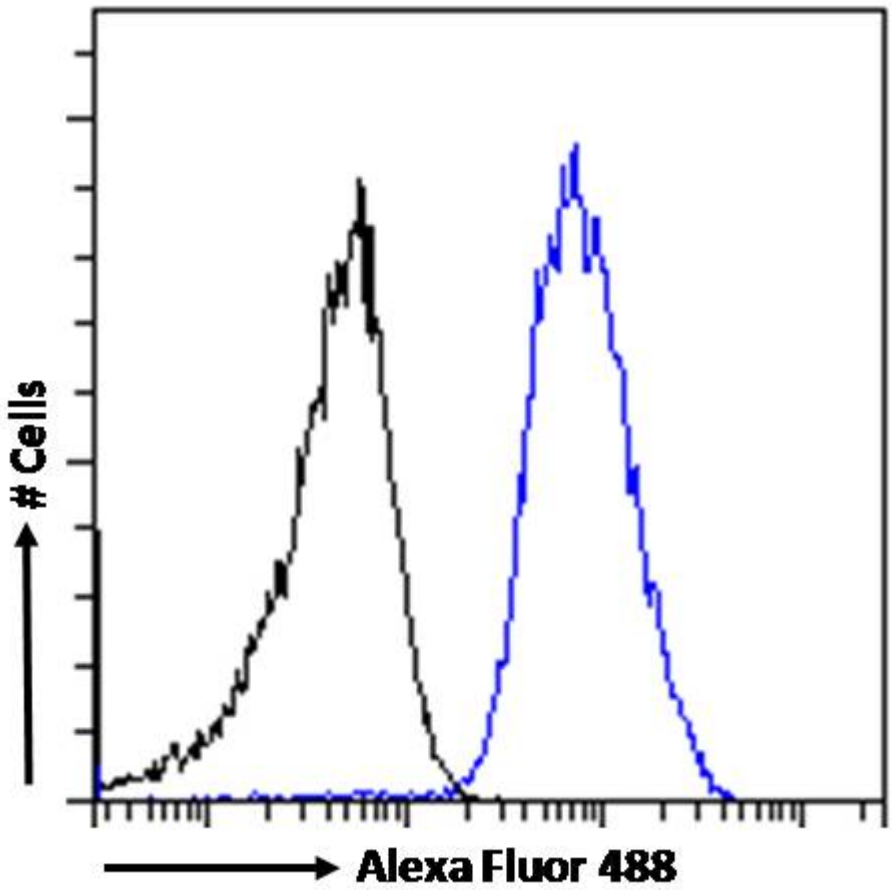
This antibody (previous batch) has been successfully used in WB on Mouse:
Napolitano F, Pasqualetti M, Usiello A, Santini E, Pacini G, Sciamanna G, Errico F, Tassone A, Di Dato V, Martella G, Cuomo D, Fisone G, Bernardi G, Mandolesi G, Mercuri NB, Standaert DG, Pisani A.
Dopamine D2 receptor dysfunction is rescued by adenosine A2A receptor antagonism in a model of DYT1 dystonia.
Neurobiol Dis. 2010 Jun;38(3):434-45.
PMID: 20227500



EB06745 (1µg/ml) staining of A549 (A),and U251 (B) cell lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



EB06745 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing plasma membrane, cytoplasmic and nuclear staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB06745 Flow cytometric analysis of paraformaldehyde fixed A549 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.