

# Anti-Bag1 Antibody [JE63-22]

HA721885



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB, IHC-P, IF-Cell, FC
<b>Molecular Wt:</b>	Predicted band size: 38 kDa
<b>Clone number:</b>	JE63-22

**Description:** Co-chaperone for HSP70 and HSC70 chaperone proteins. Acts as a nucleotide-exchange factor (NEF) promoting the release of ADP from the HSP70 and HSC70 proteins thereby triggering client/substrate protein release. Nucleotide release is mediated via its binding to the nucleotide-binding domain (NBD) of HSPA8/HSC70 where as the substrate release is mediated via its binding to the substrate-binding domain (SBD) of HSPA8/HSC70. Inhibits the pro-apoptotic function of PPP1R15A, and has anti-apoptotic activity. Markedly increases the anti-cell death function of BCL2 induced by various stimuli.

**Immunogen:** Synthetic peptide within Human Bag1 aa 111-160 / 345.

**Positive control:** HeLa cell lysate, Jurkat cell lysate, HEK-293 cell lysate, MCF7 cell lysate, RAW264.7 cell lysate, rat testis tissue lysate, mouse testis tissue lysate, human breast cancer tissue, human prostate cancer tissue, HeLa.

**Subcellular location:** Nucleus, Cytoplasm.

**Database links:** SwissProt: Q99933 Human | Q60739 Mouse | B0K019 Rat

**Recommended Dilutions:**

<b>WB</b>	1:1,000
<b>IHC-P</b>	1:500
<b>IF-Cell</b>	1:100
<b>FC</b>	1:1,000

**Storage Buffer:** 1\*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

**Purity:** Protein A affinity purified.

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Orders:0086-571-88062880

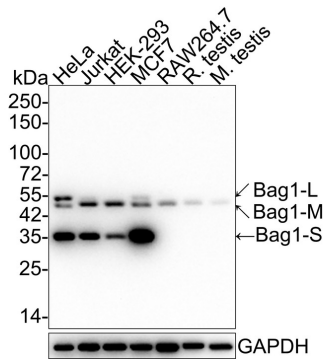
Technical:0086-571-89986345

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## Images

**Fig1:** Western blot analysis of Bag1 on different lysates with Rabbit anti-Bag1 antibody (HA721885) at 1/1,000 dilution.



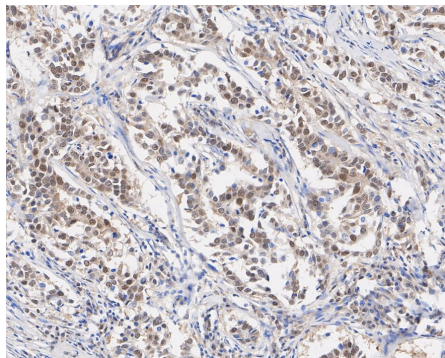
Lane 1: HeLa cell lysate (20 µg/Lane)  
 Lane 2: Jurkat cell lysate (20 µg/Lane)  
 Lane 3: HEK-293 cell lysate (20 µg/Lane)  
 Lane 4: MCF7 cell lysate (20 µg/Lane)  
 Lane 5: RAW264.7 cell lysate (20 µg/Lane)  
 Lane 6: Rat testis tissue lysate (40 µg/Lane)  
 Lane 7: Mouse testis tissue lysate (40 µg/Lane)

Predicted band size: 38 kDa  
 Observed band size: 35/46/52 kDa

Exposure time: 3 minutes;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA721885) at 1/1,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.



**Fig2:** Immunohistochemical analysis of paraffin-embedded human breast cancer tissue with Rabbit anti-Bag1 antibody (HA721885) at 1/500 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) (high pressure) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA721885) at 1/500 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

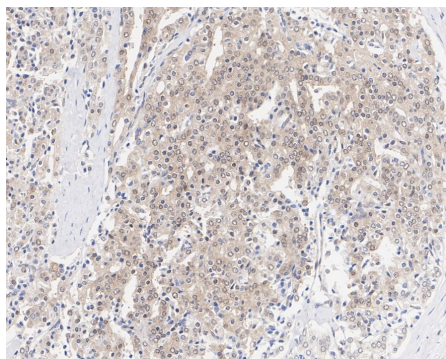
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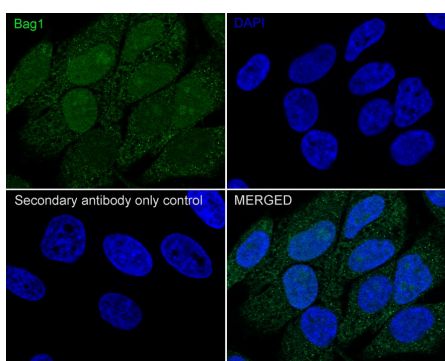
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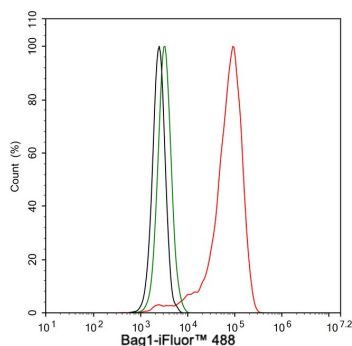
**Fig3:** Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue with Rabbit anti-Bag1 antibody (HA721885) at 1/500 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) (high pressure) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA721885) at 1/500 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



**Fig4:** Immunocytochemistry analysis of HeLa cells labeling Bag1 with Rabbit anti-Bag1 antibody (HA721885) at 1/100 dilution.

Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-Bag1 antibody (HA721885) at 1/100 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.



**Fig5:** Flow cytometric analysis of HeLa cells labeling Bag1.

Cells were fixed and permeabilized. Then stained with the primary antibody (HA721885, 1µg/mL) (red) compared with Rabbit IgG Isotype Control (green). After incubation of the primary antibody at +4 °C for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Rabbit IgG Secondary antibody (HA1121) at 1/1,000 dilution for 30 minutes at +4 °C. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

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**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

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### Background References

1. Rauch J.N., Zuiderweg E.R., Gestwicki J.E. Non-canonical interactions between heat shock cognate protein 70 (Hsc70) and Bcl2-associated anthanogene (BAG) co-chaperones are important for client release. *J. Biol. Chem.* 291:19848-19857 (2016)
2. Hung W.J., Roberson R.S., Taft J., Wu D.Y. Human BAG-1 proteins bind to the cellular stress response protein GADD34 and interfere with GADD34 functions. *Mol. Cell. Biol.* 23:3477-3486 (2003)

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