

Anti-BATF3 Antibody [PSH13-52]

HA723541



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB, IP, ChIP
Molecular Wt:	Predicted band size: 14 kDa
Clone number:	PSH13-52

Description: AP-1 family transcription factor that controls the differentiation of CD8+ thymic conventional dendritic cells in the immune system. Required for development of CD8-alpha+ classical dendritic cells (cDCs) and related CD103+ dendritic cells that cross-present antigens to CD8 T-cells and produce interleukin-12 (IL12) in response to pathogens (By similarity). Acts via the formation of a heterodimer with JUN family proteins that recognizes and binds DNA sequence 5'-TGA[CG]TCA-3' and regulates expression of target genes.

Immunogen: Recombinant protein within human BATF3 aa 1-127.

Positive control: U-937 cell lysate, HDLM2 cell lysate.

Subcellular location: Nucleus.

Database links: SwissProt: Q9NR55 Human

Recommended Dilutions:

WB	1:5,000
IP	1-2µg/sample
ChIP	Use 0.5~2 µg for 25 µg of chromatin.

Storage Buffer: 1*PBS (pH7.4), 0.1% BSA, 40% Glycerol, 0.2% Proclean 950.

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

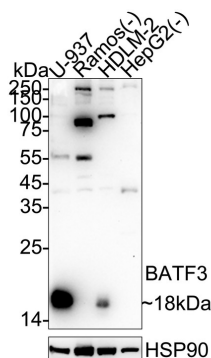
Service mail:support@huabio.cn

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Images

Fig1: Western blot analysis of BATF3 on different lysates with Rabbit anti-BATF3 antibody (HA723541) at 1/5,000 dilution.

Lane 1: U-937 cell lysate
Lane 2: Ramos cell lysate (negative)
Lane 3: HDLM2 cell lysate
Lane 4: HepG2 cell lysate (negative)



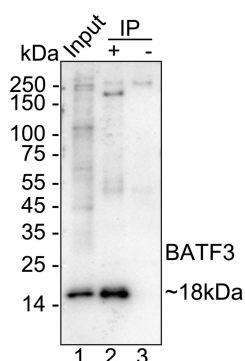
Lysates/proteins at 20 µg/Lane.

Predicted band size: 14 kDa
Observed band size: 18 kDa

Exposure time: 3 minutes; ECL: K1801;
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 (HA723541) at 1/5,000 dilution was used in primary antibody dilution (K1803) 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: BATF3 was immunoprecipitated from 0.2 mg U-937 cell lysate with HA723541 at 2 µg/10 µl beads. Western blot was performed from the immunoprecipitate using HA723541 at 1/5,000 dilution. HRP Conjugated Anti-Rabbit IgG for IP Nano-secondary antibody at 1/5,000 dilution was used for 1 hour at room temperature.



Lane 1: U-937 cell lysate (input)
Lane 2: HA723541 IP in U-937 cell lysate
Lane 3: Rabbit IgG instead of HA723541 in U-937 cell lysate

Blocking/Dilution buffer: primary antibody dilution (K1803)
Exposure time: 3 minutes; ECL: K1801

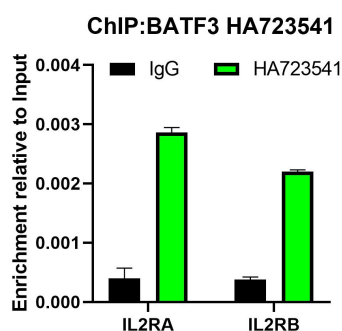


Fig3: Chromatin immunoprecipitations were performed with cross-linked chromatin from U-937 cells with BATF3 (HA723541) or Normal Rabbit IgG according to the ChIP protocol. The enriched DNA was quantified by real-time PCR using indicated primers. The amount of immunoprecipitated DNA in each sample is represented as signal relative to the total amount of input chromatin, which is equivalent to one.

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

Background References

1. Jain N et al. TET2 guards against unchecked BATF3-induced CAR T cell expansion. *Nature*. 2023 Mar
2. Ziblat A et al. Batf3(+) DCs and the 4-1BB/4-1BBL axis are required at the effector phase in the tumor microenvironment for PD-1/PD-L1 blockade efficacy. *Cell Rep*. 2024 May

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