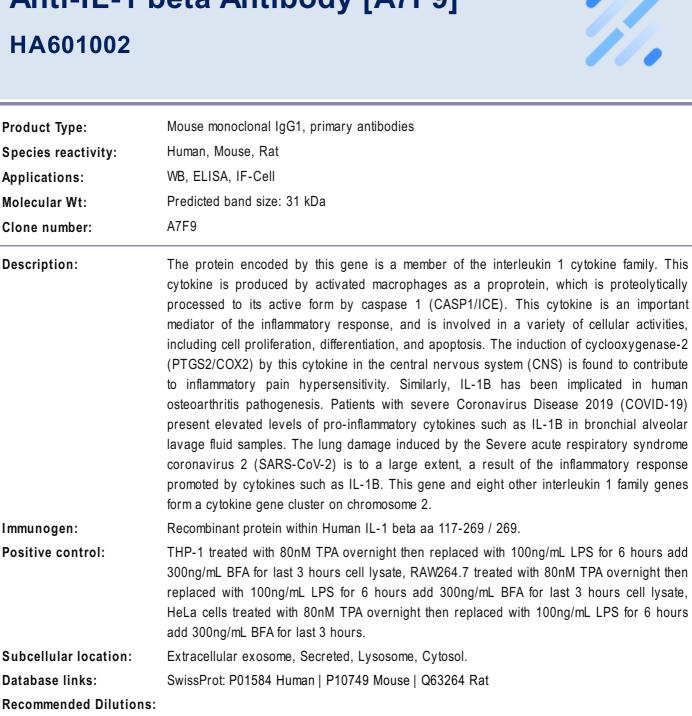
Anti-IL-1 beta Antibody [A7F9] HA601002



Recommended Dilutions:	
WB	1:1,000-1:2,000
ELISA	1:20,000
IF-Cell	1:100
Storage Buffer:	PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Storage Instruction:	Shipped at 4 $^\circ\!\!\mathbb{C}$. Store at +4 $^\circ\!\!\mathbb{C}$ short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20 $^\circ\!\!\mathbb{C}$ long term.
Purity:	Protein A affinity purified.

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Images

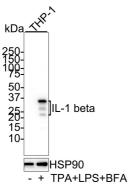


Fig1: Western blot analysis of IL-1 beta on different lysates with Mouse anti-IL-1 beta antibody (HA601002) at 1/1,000 dilution.

Lane 1: THP-1 cell lysate

Lane 2: THP-1 treated with 80nM TPA overnight then replaced with 100ng/mL LPS for 6 hours add 300ng/mL BFA for last 3 hours cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 31 kDa Observed band size: 31/28/20 kDa

Exposure time: 5 seconds;

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 (HA601002) at 1/1,000 dilution was used in 5% NFDM/TBST at 4° C overnight. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Western blot analysis of IL-1 beta on different lysates with Mouse anti-IL-1 beta antibody (HA601002) at 1/2,000 dilution.

Lane 1: RAW264.7 cell lysate

Lane 2: RAW264.7 treated with 80nM TPA overnight then replaced with 100ng/mL LPS for 6 hours add 300ng/mL BFA for last 3 hours cell lysate

Lysates/proteins at 30 µg/Lane.

Predicted band size: 31 kDa Observed band size: 31 kDa

Exposure time: 3 minutes 25 seconds;

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 (HA601002) at 1/2,000 dilution was used in 5% NFDM/TBST at 4° C overnight. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1/50,000 dilution was used for 1 hour at room temperature.

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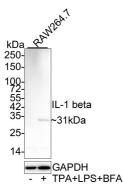


Fig3: Western blot analysis of IL-1 beta on different proteins with Mouse anti-IL-1 beta antibody (HA601002) at 1/2,000 dilution.

Lane 1: Recombinant mouse IL-1 beta Lane 2: Recombinant rat IL-1 beta Lane 3: Recombinant human IL-1 beta

Lysates/proteins at 50 ng/Lane.

Exposure time: 30 seconds;

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 (HA601002) at 1/2,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1/50,000 dilution was used for 1 hour at room temperature.

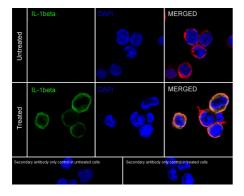


Fig4: Immunocytochemistry analysis of HeLa cells treated with 80nM TPA overnight then replaced with 100ng/mL LPS for 6 hours add 300ng/mL BFA for last 3 hours labeling IL-1 beta with Mouse anti-IL-1 beta antibody (HA601002) at 1/100 dilution.

Cells were fixed in 100% precooled methanol 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 Mouse anti-IL-1 beta antibody (HA601002) at 1/100 dilution in 1% BSA in PBST overnight at 4 $^{\circ}$ C. Goat Anti-Mouse IgG H&L (iFluorTM 488, HA1125) 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.

beta Tubulin (ET1602-4, red) was stained at 1/100 dilution overnight at +4°C. Goat Anti-Rabbit IgG H&L (iFluor [™] 594, HA1122) were used as the secondary antibody at 1/1,000 dilution.

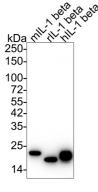
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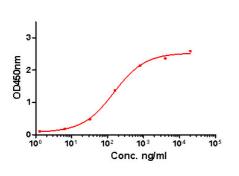


Fig5: IL-1 beta Antibody (HA601002) in indirect ELISA.

Indirect ELISA analysis of IL-1 beta was performed by coating wells of a 96-well plate with 50 μ l per well of IL-1 beta antigen diluted in carbonate/bicarbonate buffer, at a concentration of 1 μ g/mL overnight at 4°C. Wells of the plate were washed, blocked with StartingBlock blocking buffer, and incubated with 50 μ l per well of a mouse IL-1 beta monoclonal antibody starting at a concentration of 20 μ g/mL and serially diluting it to a concentration of 1.28 ng/mL for 2 hours at room temperature. The plate was washed and incubated with 50 μ l per well of an HRP-conjugated goat anti-mouse IgG secondary antibody at a dilution of 1:10,000 for one hour at room temperature. Detection was performed using an Ultra TMB Substrate for 5 minutes at room temperature in the dark. The reaction was stopped with sulfuric acid and absorbances were read on a spectrophotometer at 450 nm.

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

Background References

- 1. Zou L. et. al. HO-1 induced autophagy protects against IL-1 beta-mediated apoptosis in human nucleus pulposus cells by inhibiting NF-kappaB. Aging (Albany NY). 2020 Feb
- Libby P. Interleukin-1 Beta as a Target for Atherosclerosis Therapy: Biological Basis of CANTOS and Beyond. J Am Coll Cardiol. 2017 Oct

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