# Anti-HA tag Antibody [2-G10] - BSA and Azide free

# HA610320

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| **Product Type:** | Recombinant Mouse monoclonal IgG1, primary antibodies |
| **Species reactivity:** | Species independent |
| **Applications:** | WB, IHC-P, IF-Cell |
| **Clone number:** | 2-G10 |

**Description:** Human influenza hemagglutinin (HA) is a surface glycoprotein required for the infectivity of the human virus. The HA tag is derived from the HA molecule corresponding to amino acids 98-106. This antibody is used to detect proteins that are tagged with HA epitope (YPYDVPDYA) and are expressed in prokaryotic and eukaryotic cells.

**Immunogen:** Synthetic peptide corresponding to HA tag conjugated to KLH.

**Recommended Dilutions:**

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| **WB** | 1:10,000-1:25,000 |
| **IHC-P** | 1:1,000-1:10,000 |
| **IF-Cell** | 1:1,000 |

**Storage Buffer:** PBS (pH7.4).

**Storage Instruction:** Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

**Purity:** Protein A affinity purified.

## Images

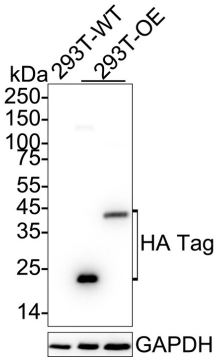


**Fig1:** Western blot analysis of HA tag on different lysates with Mouse anti-HA tag antibody (HA610320) at 1/10,000 dilution.

Lane 1: 293T cell lysate
Lane 2: 293T transfected with HA-tagged Nanos homolog 3 (N-terminal) cell lysate
Lane 3: 293T transfected with HA-tagged LIPT1 (N-terminal) cell lysate

Lysates/proteins at 10 µg/Lane.

Exposure time: 4 seconds; 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 (HA610320) at 1/10,000 dilution was used in 5% NFDM/TBST at 4℃ overnight. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1/50,000 dilution was used for 1 hour at room temperature.

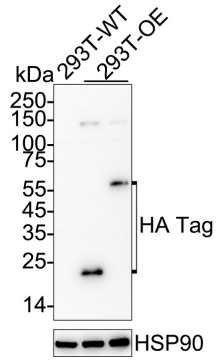


**Fig2:** Western blot analysis of HA tag on different lysates with Mouse anti-HA tag antibody (HA610320) at 1/25,000 dilution.

Lane 1: 293T cell lysate (10 µg/Lane)
Lane 2: 293T transfected with HA-tagged Nanos homolog 3 (N-terminal) cell lysate (10 µg/Lane)
Lane 3: 293T transfected with HA-tagged CLK4 (C-terminal) cell lysate (20 µg/Lane)

Exposure time: 1minute 50 seconds; 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 (HA610320) at 1/25,000 dilution was used in 5% NFDM/TBST at 4℃ overnight. Goat Anti-Mouse IgG - HRP Secondary Antibody (HA1006) at 1/50,000 dilution was used for 1 hour at room temperature.

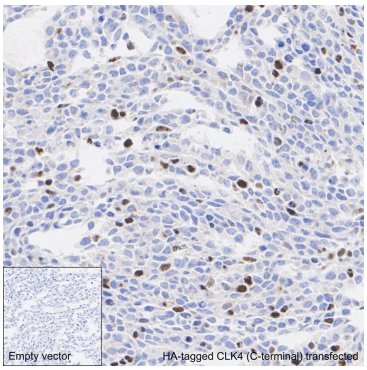


**Fig3:** Immunohistochemical analysis of paraffin-embedded 293T cells transfected with HA-tagged CLK4 (C-terminal) with Mouse anti-HA tag antibody (HA610320) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with $ddH_2O$ and PBS, and then probed with the primary antibody (HA610320) at 1/1,000 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.

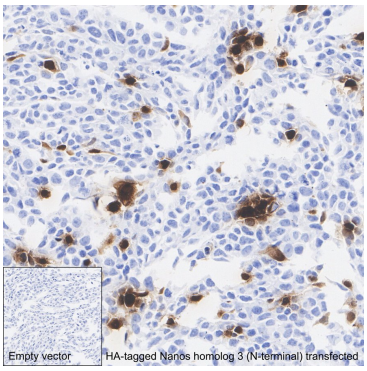


**Fig4:** Immunohistochemical analysis of paraffin-embedded 293T cells transfected with HA-tagged Nanos homolog 3 (N-terminal) with Mouse anti-HA tag antibody (HA610320) at 1/10,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with $ddH_2O$ and PBS, and then probed with the primary antibody (HA610320) at 1/10,000 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.

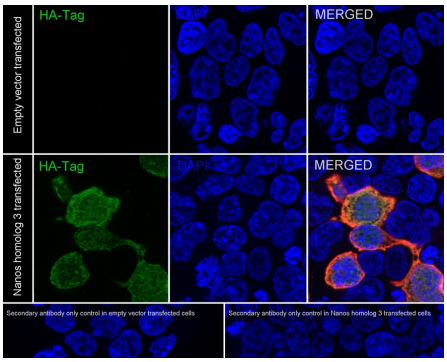


**Fig5:** Immunocytochemistry analysis of 293T cells labeling HA tag with Mouse anti-HA tag antibody (HA610320) at 1/1,000 dilution.

293T cells, transfected with empty control (upper, negative) / HA-tagged Nanos homolog 3 (N-terminal) (lower, positive) expression vector, respectively, were fixed in 4% paraformaldehyde for 15 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 15 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-HA tag antibody (HA610320) at 1/1,000 dilution in 1% BSA in PBST overnight at 4 ℃. Goat Anti-Mouse IgG H&L (iFluor™ 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℃. Goat Anti-Rabbit IgG H&L (iFluor™ 594, HA1122) were used as the secondary antibody at 1/1,000 dilution.