Anti-TBR2 Antibody [PSH07-88] - BSA and Azide free

HA751195

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Cynomolgus monkey, Pig
Applications:	WB, IHC-P, IHC-Fr
Molecular Wt:	Predicted band size: 73 kDa
Clone number:	PSH07-88

Description: Functions as a transcriptional activator playing a crucial role during development. Functions in trophoblast differentiation and later in gastrulation, regulating both mesoderm delamination and endoderm specification. Plays a role in brain development being required for the specification and the proliferation of the intermediate progenitor cells and their progeny in the cerebral cortex. Also involved in the differentiation of CD8+ T-cells during immune response regulating the expression of lytic effector genes.

Immunogen: Recombinant protein within human TBR2 aa 1-300.

Positive control: NK-92 cell lysate, Mouse embryo tissue lysate, E14.5 mouse embryonic brain tissue.

Subcellular location: Nucleus.

Database links: SwissProt: O95936 Human | O54839 Mouse

Recommended Dilutions:

WB	1:1,000
IHC-P	1:5,000
IHC-Fr	1:500

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

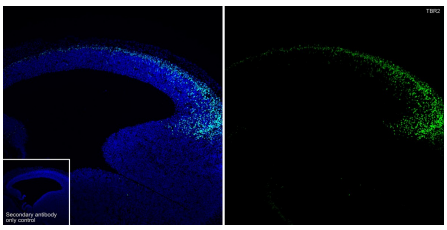

Fig1: Application: IHC-Fr

Species: Mouse

Site: E14.5 embryonic brain

Sample: Frozen section

Antibody concentration: 1/500

Antigen retrieval: Not required

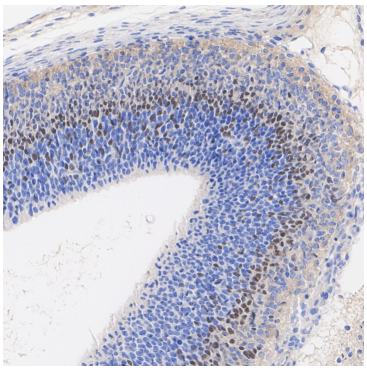

Fig2: Immunohistochemical analysis of paraffin-embedded E14.5 mouse embryonic brain tissue with Rabbit anti-TBR2 antibody (HA751195) at 1/5,000 dilution.

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 (HA751195) at 1/5,000 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.

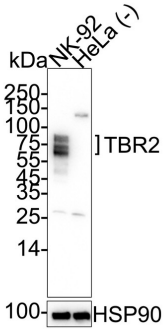

Fig3: Western blot analysis of TBR2 on different lysates with Rabbit anti-TBR2 antibody (HA751195) at 1/1,000 dilution.

Lane 1: NK-92 cell lysate
Lane 2: HeLa cell lysate (negative)

Lysates/proteins at 30 µg/Lane.

Predicted band size: 73 kDa
Observed band size: 73/85 kDa

Exposure time: 14 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 (HA751195) at 1/1,000 dilution was used in 5% NFDM/TBST at 4℃ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

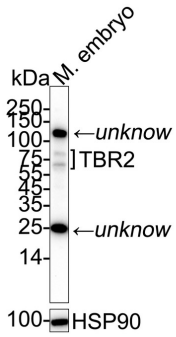

Fig4: Western blot analysis of TBR2 on mouse embryo tissue lysates with Rabbit anti-TBR2 antibody (HA751195) at 1/1,000 dilution.

Lysates/proteins at 30 µg/Lane.

Predicted band size: 73 kDa
Observed band size: 73/85 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 (HA751195) at 1/1,000 dilution was used in 5% NFDM/TBST at 4℃ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Background References

1. Joulia E et al. Eomes-dependent mitochondrial regulation promotes survival of pathogenic CD4+ T cells during inflammation. J Exp Med. 2024 Feb.
2. Wong P et al. T-BET and EOMES sustain mature human NK cell identity and antitumor function. J Clin Invest. 2023 Jul.