

CUSABIO TECHNOLOGY LLC

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HTT Recombinant Monoclonal Antibody

Product Code	CSB-RA802195A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P42858
Immunogen	A synthesized peptide derived from human Huntingtin
Species Reactivity	Human
Tested Applications	ELISA, IHC; Recommended dilution: IHC:1:50-1:200
Relevance	May play a role in microtubule-mediated transport or vesicle function.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Neuroscience
Gene Names	HTT
Clone No.	6F2

Image



IHC image of CSB-RA802195A0HU diluted at 1:100 and staining in paraffin-embedded human small intestine tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4? overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

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IHC image of CSB-RA802195A0HU diluted at 1:100 and staining in paraffin-embedded human brain tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4? overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Description

B cells were extracted from an animal immunized with a synthesized peptide derived from human HTT, which was then fused with myeloma cells to form hybridomas. The variable light (VL) and variable heavy (VH) domains of HTT antibody-producing hybridomas were sequenced, and this sequencing data was used for vector construction in the recombinant generation. The HTT monoclonal antibody gene-containing vector was then transfected into cells for culture. The HTT recombinant monoclonal antibody was purified from the cell culture supernatant using affinity chromatography. The purified antibody was found to exhibit specificity in ELISA and IHC applications, detecting only the human HTT protein.

The HTT protein is involved in various cellular processes, including transcriptional regulation, vesicle trafficking, and cell signaling. It is primarily expressed in the brain, where it plays an important role in neuronal development and function. The mutation of HTT protein is associated with Huntington's disease, which is believed to interfere with normal cellular processes, leading to the death of brain cells and the characteristic symptoms of the disease.