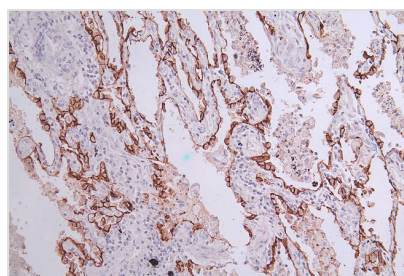




# AQP4 Recombinant Monoclonal Antibody

<b>Product Code</b>	CSB-RA548145A0HU
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	P55087
<b>Immunogen</b>	A synthesized peptide derived from Human AQP4
<b>Species Reactivity</b>	Human
<b>Tested Applications</b>	ELISA, IHC; Recommended dilution: IHC:1:50-1:200
<b>Form</b>	Liquid
<b>Conjugate</b>	Non-conjugated
<b>Storage Buffer</b>	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
<b>Purification Method</b>	Affinity-chromatography
<b>Isotype</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Product Type</b>	Recombinant Antibody
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Research Area</b>	Cancer;Metabolism;Signal transduction
<b>Gene Names</b>	AQP4
<b>Clone No.</b>	22F10

## Image



IHC image of CSB-RA548145A0HU diluted at 1:50 and staining in paraffin-embedded human lung cancer performed on a Leica Bond<sup>TM</sup> 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°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.33% DAB.

## Description

The preparation of the AQP4 recombinant monoclonal antibody entails a meticulously planned process. It all starts with in vitro cloning, where AQP4 antibody genes are seamlessly incorporated into expression vectors. Subsequently, these vectors are transfected into host cells, creating a conducive environment for the recombinant antibody's expression within a cell culture milieu. After expression, the AQP4 recombinant monoclonal antibody is subjected to affinity chromatography purification. This antibody is well-suited for ELISA and IHC to detect human AQP4 protein.



AQP4 is a crucial protein for maintaining water homeostasis and fluid balance in the CNS and other tissues. Dysregulation of AQP4 function can have implications for neurological disorders, brain injuries, and conditions affecting fluid balance in various organs.