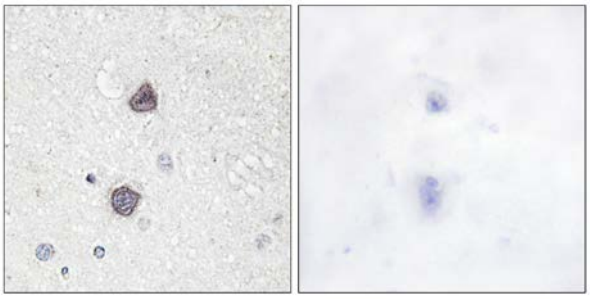
Aquaporin 2 (Phospho-Ser256) Antibody

E11-0768A

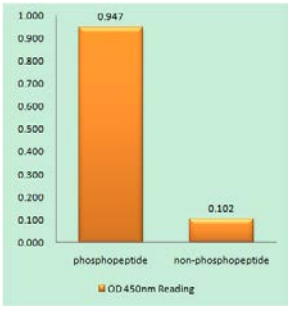
Catalog Number: E11-0768A
Concentration: 1mg/ml
Swiss-Prot No.: P41181
Other Names: ADH water channel, AQP-CD, Aquaporin-CD, Collecting duct water channel protein, WCH-CD, Water channel protein for renal collecting duct, aquaporin 2
All Sites: Human: Ser256; Mouse: Ser256; Rat: Ser256
Storage/Stability: Store at -20 ℃/1 year
Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg^{2+} and Ca^{2+}), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Immunogen: The antiserum was produced against synthesized phosphopeptide derived from human Aquaporin 2 around the phosphorylation site of serine 256 (R-Q-S^{P}-V-E).
Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
Specificity: Aquaporin 2 (Phospho-Ser256) antibody detects endogenous levels of Aquaporin 2 only when phosphorylated at serine 256.
Reactivity: Human (Identities = 100%, Positives = 100%); Mouse (Identities = 100%, Positives = 100%); Rat (Identities = 100%, Positives = 100%)
Applications: IHC: 1:50~1:100 ELISA: 1:40000
References:

Takeaki Inoue, Am J Physiol Renal Physiol, Nov 1998; 275: 752.
PM Deen, J. Am. Soc. Nephrol., Oct 1997; 8: 1493.
Baoxue Yang, J. Biol. Chem., Jan 2001; 276: 2775 - 2779.



P-peptide - +

Immunohistochemistry analysis of paraffin-embedded human brain tissue using Aquaporin 2 (Phospho-Ser256) antibody.



Aquaporin 2 (Phospho-Ser256) antibody reacts with epitope-specific phosphopeptide and corresponding non-phosphopeptide. The absorbance readings at 450 nM are shown in the ELISA figure.

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