bs-12507R **[Primary Antibody]**

phospho-AQP2 (Ser256) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 359 **SWISS:** P41181

Target: AQP2 (Ser256)

Immunogen: KLH conjugated synthesised phosphopeptide derived from human AQP2 around the phosphorylation site of Ser256: RQ(p-S)VE.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: This gene encodes a water channel protein located in the kidney collecting tubule. It belongs to the MIP/aquaporin family, some members of which are clustered together on chromosome 12q13. Mutations in this gene have been linked to autosomal dominant, and recessive forms of nephrogenic diabetes insipidus. Belongs to the MIP/aquaporin (TC 1.A.8) family.

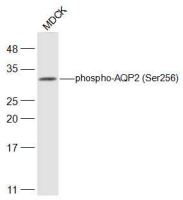
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human, Dog (predicted: Mouse, Rat, Rabbit, Pig, Cow, Chicken, Horse, Monkey)

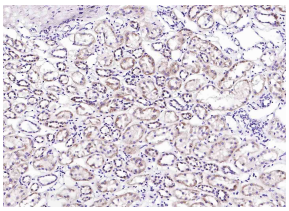
Predicted MW.: 29 kDa

Subcellular Location: Cell membrane ,Cytoplasm

VALIDATION IMAGES



Sample: MDCK(Dog) Cell Lysate at 30 ug Primary: Anti-phospho-AQP2 (Ser256) (bs-12507R) at 1/500 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 29 kD Observed band size: 29 kD



Paraformaldehyde-fixed, paraffin embedded (Human kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (phospho-AQP2 (Ser256)) Polyclonal Antibody, Unconjugated (bs-12507R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=4.18]** Wang Q et al. Bilobetin induces kidney injury by influencing cGMP-mediated AQP-2 trafficking and podocyte cell cycle arrest. Phytomedicine,2019 153073. WB ;Mouse. doi:10.1016/j.phymed.2019.153073
- **[IF=3]** Zhuo Sun. et al. Loss of Pten in renal tubular cells leads to water retention by upregulating AQP2. KIDNEY DIS-BASEL. 2022 Nov;: WB ;Mouse. 10.1159/000528010