bs-4164R **[Primary Antibody]**

CT054 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 113278 **SWISS:** Q9NQ40

Target: CT054

Immunogen: KLH conjugated synthetic peptide derived from human CT054 : 391-469/469.

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: CT054 is a Riboflavin transporter. Riboflavin transport is Na+-independent but moderately pH-sensitive. Activity is strongly inhibited by riboflavin analogs, such as lumiflavin, flavin mononucleotide (FMN) and flavin adenine dinucleotide (FAD), and to a lesser extent by amiloride.

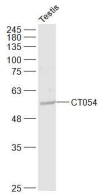
Applications: **WB** (1:500-2000)
Flow-Cyt (3ug/Test)

Reactivity: Mouse, Rat (predicted: Human, Cow, Dog)

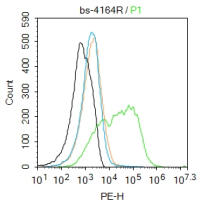
Predicted MW.: 51 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Sample: Testis (Rat) Lysate at 40 ug Primary: Anti-CT054 (bs-4164R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 51 kD Observed band size: 51 kD



Blank control: Mouse kidney. Primary Antibody (green line): Rabbit Anti-CT054 antibody (bs-4164R) Dilution: 3µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-PE Dilution: 1µg /test. Protocol The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=3.454]** Anandam KY et al. Effect of the pro-inflammatory cytokine TNF-α on intestinal riboflavin uptake: Inhibition mediated via transcriptional mechanism(s). (2018) American Journal of Physiology-Cell Physiology. WB ;Mouse. 30156861

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.