bs-3253R **[Primary Antibody]**

phospho-LRP6 (Ser1490) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 4040 **SWISS:** O75581

Target: LRP6 (Ser1490)

Immunogen: KLH conjugated synthesised phosphopeptide derived from human LRP6 around the phosphorylation site of Ser1490: P(p-S)PA.

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 member of the low density lipoprotein (LDL) receptor gene family. LDL receptors are transmembrane cell surface proteins involved in receptor-mediated endocytosis of lipoprotein and protein ligands. The protein encoded by this gene functions as a receptor or, with Frizzled, a co-receptor for Wnt and thereby transmits the canonical Wnt/beta-catenin signaling cascade. Through its interaction with the Wnt/beta-catenin signaling cascade this gene plays a role in the regulation of cell differentiation, proliferation, and migration and the development of many cancer types. This protein undergoes gamma-secretase dependent RIP- (regulated intramembrane proteolysis) processing but the precise locations of the cleavage sites have not been determined.[provided by RefSeq, Dec 2009].

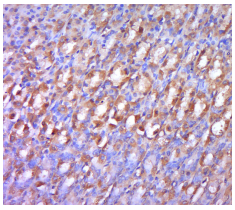
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1ug/Test)

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

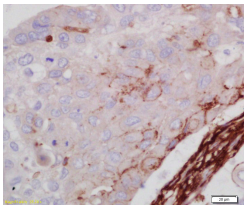
Predicted MW.: 175 kDa

Subcellular Location: Cell membrane ,Cytoplasm

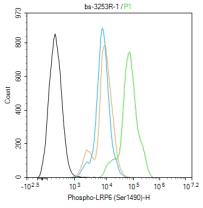
VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded (rat stomach tissue); 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 (P-LRP6 (Ser1490)) Polyclonal Antibody, Unconjugated (bs-3253R) at 1:400 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Phospho-LRP6 (Ser1490) Polyclonal Antibody, Unconjugated(bs-3253R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control（black line）:HepG2. Primary Antibody (green line): Rabbit Anti-Phospho-LRP6 (Ser1490) antibody (bs-3253R) Dilution:1ug/Test; Secondary Antibody（white blue line）: Goat anti-rabbit IgG-AF488 Dilution: 0.5ug/Test. Isotype control（orange line）: Normal Rabbit IgG Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min 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=4.75]** Chen, Zhidan, et al. "Urotensin II inhibited the proliferation of cardiac side population cells in mice during

pressure overload by JNK‐LRP6 signalling." Journal of cellular and molecular medicine (2014). Other ;="Mouse". 24447593

- **[IF=5.168]** Yao,et al.LRP6 promotes invasion and metastasis of colorectal cancer through cytoskeleton dynamics.(2017) Oncotarget. 8:109632-109645. IHC ;Human. 29312635
- **[IF=3.68]** Boone, Jonathan D., et al. "Targeting the Wnt/β-catenin pathway in primary ovarian cancer with the porcupine inhibitor WNT974." Laboratory Investigation (2016). IHC ;="Human". 26658453
- **[IF=3.961]** Meo Burt P et al. FGF23 regulates Wnt/β-catenin signaling-mediated osteoarthritis in mice overexpressing high molecular weight FGF2.Endocrinology 2018 06 01;159(6). IHC ;Mouse. 29718273
- **[IF=4.087]** Haixia Liu. et al. Fructus Ligustri Lucidi preserves bone quality through induction of canonical Wnt/β-catenin signaling pathway in ovariectomized rats. Phytother Res. 2021 Jan;35(1):424-441 IF,IHC ;Rat. 32755017