

Product Datasheet

SMAD3 (Phospho-S213) Rabbit Polyclonal Antibody (orb315707)

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|-----------------------------|---|
| Catalog Number | orb315707 |
| Category | Antibodies |
| Description | The SMAD3 (Phospho-S213) Antibody is suitable for IF, IHC, WB. It is a Polyclonal, Unconjugated antibody which raised against KLH-conjugated synthetic phosphopeptide corresponding to residues surrounding S213 of human SMAD3 protein. The exact sequence is proprietary. Purification: The antibody was purified by immunogen affinity chromatography. |
| Target | SMAD3 |
| Clonality | Polyclonal |
| Species/Host | Rabbit |
| Conjugation | Unconjugated |
| Reactivity | Gallus, Human, Mouse, Porcine, Rat |
| Form/Appearance | Liquid |
| Buffer/Preservatives | 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |
| Purification | The antibody was purified by immunogen affinity chromatography. |
| Immunogen | KLH-conjugated synthetic phosphopeptide corresponding to residues surrounding S213 of human SMAD3 protein. The exact sequence is proprietary. |
| UniProt ID | P84025, P84022, Q8BUN5 |
| Tested applications | IF, IHC, WB |

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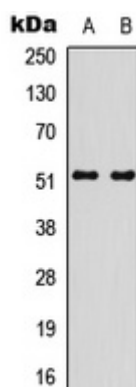
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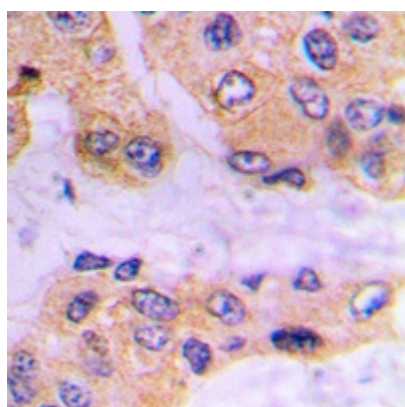
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|------------------------|---|
| Dilution range | WB: 1-500:1000, IHC-P: 1-100:200, IF/ICC: 1-100:500 |
| Specificity | Recognizes endogenous levels of SMAD3 protein only when phosphorylated at S213. |
| Antibody Type | Primary Antibody |
| Storage | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| Note | For research use only |
| Entrez | 17127, 25631, 4088 |
| Expiration Date | 12 months from date of receipt. |



Western blot analysis of SMAD3 (Phospho-S213) expression in A549 (A), Jurkat (B) whole cell lysates. (Predicted band size: 48 kD; Observed band size: 52 kD)



Immunohistochemical analysis of SMAD3 (Phospho-S213) staining in human prostate cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (Phospho-H 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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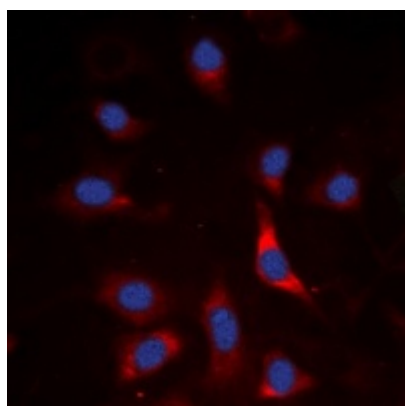
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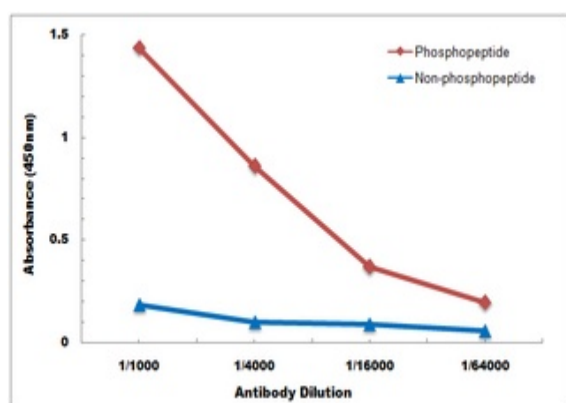
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Immunofluorescent analysis of SMAD3 (Phospho-S213) staining in A549 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).



Direct ELISA antibody dose-response curve using Anti-SMAD3 (Phospho-S213) Antibody. Antigen (Phosphopeptide and non-phosphopeptide) concentration is 5 ug/ml. Goat Anti-Rabbit IgG (H&L) - HRP was used as the secondary antibody, and signal was developed by TMB substrate.

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