Product Datasheet

SMAD2 phospho S465/phospho S467 Antibody (orb345823)

Catalog Number	orb345823
Category	Antibodies
Description	SMAD2 pS465 pS467 antibody
Clonality	Polyclonal
Species/Host	Rabbit
Isotype	IgG
Conjugation	Unconjugated
Reactivity	Human
Form/Appearance	Liquid (sterile filtered)
Concentration	0.94 mg/mL
Buffer/Preservatives	Preservative: 0.01% (w/v) Sodium Azide. Stabilizer: None; Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

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Purity	Anti-SMAD2 pS465 pS467 antibody is directed against the phosphorylated form of human Smad2 protein at the pS465 and pS467 residues. The product was affinity purified from monospecific antiserum by immunoaffinity purification. Antiserum was first purified against the phosphorylated form of the immunizing peptide. The resultant affinity purified antibody was then cross adsorbed against the non-phosphorylated form of the immunizing peptide. Reactivity occurs against human SMAD2. Reactivity with non-phosphorylated human Smad2 is minimal by ELISA and western blot. A BLAST analysis was used to suggest cross-reactivity with Smad2 protein from human, mouse, rat, orangutan, and bovine based on 100% homology with the immunizing sequence. Reactivity against homologues from other sources is not known.
Immunogen	SMAD2 pS465 pS467 antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to a C-terminal of human SMAD2 protein.
UniProt ID	**Q15796**
Tested applications	ELISA, WB
Dilution range	ELISA: 1:10,000, WB: 1:1,000 - 1:3,000
Application notes	Anti-SMAD2 pS465 pS467 affinity purified antibody has been tested for use in ELISA and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 52 kDa in size corresponding to Smad2 protein by western blotting in the appropriate cell lysate or extract.
Antibody Type	Primary Antibody
Storage	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Dry Ice Shipping	**Please note: This product requires shipment on dry ice. A dry ice surcharge will apply.**

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Note For research use only

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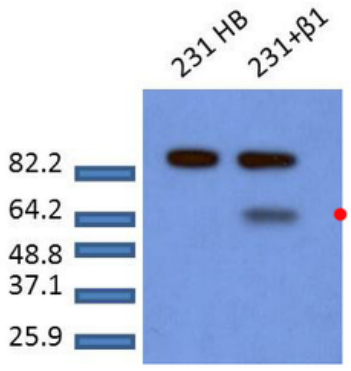

Western Blot of Rabbit anti-Smad2 pS465pS467 antibody. Lane 1: MDA-MB-231 cells. Lane 2: MDA-MB-231 cells treated with TGF-ß1 for 1h. Load: 20 µg per lane. Primary antibody: Smad2pS465pS467 antibody at 1:1000 for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10000 for 45 min at RT. Block: 5% BLOTTO/TBST overnight at 4°C. Predicted/Observed size: 52.3 kDa for Smad2pS465pS467. Other band(s): ~85kDa non-specific band.

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