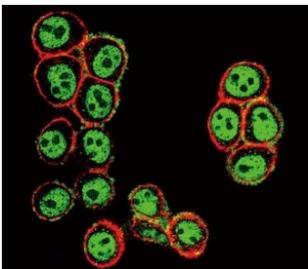


Phospho-SMAD3 Antibody (pS208) (F48449)

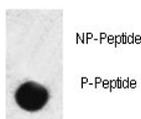
Catalog No.	Formulation	Size
F48449-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F48449-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

[Bulk quote request](#)

Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Chicken, Mouse, Pig, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P84022
Applications	Immunofluorescence : 1:10-1:100 Dot Blot : 1:500
Limitations	This phospho-SMAD3 antibody is available for research use only.



Confocal immunofluorescent analysis of phospho-SMAD3 antibody with HeLa cells followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Actin filaments have been labeled with Alexa Fluor 555 Phalloidin (red).



Dot blot analysis of phospho-SMAD3 antibody. 50ng of phos-peptide or nonphos-peptide per dot were spotted.

Description

SMAD3, a receptor regulated SMAD (R-SMAD) is a transcriptional modulator activated by TGF-beta (transforming growth factor) and activin type 1 receptor kinase. SMAD3 is estimated to account for at least 80% of all TGF-beta-mediated response. Activated type I receptor phosphorylates receptor-activated SMADS (RSMADS) at their c-terminal two extreme serines in the SSXS motif. The phosphorylated R-SMAD translocate into nucleus, where they regulate transcription of target genes. SMAD3 signal transduction appears to be important in the rgulation of muscle-specific genes. Loss of SMAD3 is a feature of pediatric T-cell lymphoblastic leukemia, while upregulation of SMAD3 may be responsible for TGFB hyperresponsiveness observed in scleroderma.

Application Notes

Titration of the phospho-SMAD3 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

This phospho-SMAD3 antibody was produced from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding pS208 of human SMAD3.

Storage

Aliquot the phospho-SMAD3 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.