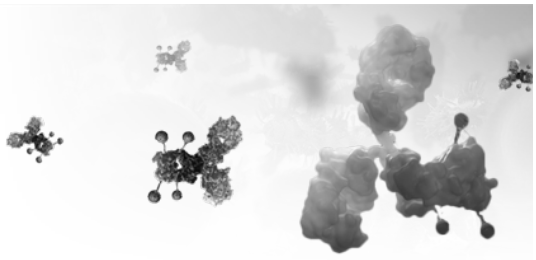

Mouse anti-Mouse Smad2/3 monoclonal antibody, clone 29/Tnbe3/4 (CABT-B9322)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	Mouse Smad2 aa. 142-263
Isotype	IgG1, κ
Source/Host	Mouse
Species Reactivity	Human, Mouse, Rat, Dog
Clone	29/Tnbe3/4
Purification	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Conjugate	Unconjugated
Applications	WB; IF; IP
Format	Liquid
Concentration	250 μg/ml
Size	50 μg, 150 μg
Buffer	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.
Storage	Store undiluted at -20°C.

BACKGROUND

Introduction	The transforming growth factor β (TGFβ)/activin/BMP family of growth factors plays a diverse

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221

	and important role in growth, development, and differentiation. These growth factors act through their binding to heteromeric plasma membrane receptor protein kinases which, upon ligand binding, become activated and trigger an intracellular signaling cascade. Specifically, receptor activation induces the translocation of a set of conserved proteins named Smads (Sma- and Mad-related proteins) to the nucleus, resulting in gene activation. Smad2 is a ubiquitously expressed protein of 58 kDa that is phosphorylated and translocated to the nucleus in response to TGFβ, but not BMP. The overall response to TGFβ is growth inhibition. The Smad2 gene is located in chromosome 18q21.1 which is often absent in several human cancers. Furthermore, some missense mutations on the Smad2 gene were identified in colorectal carcinomas, suggesting Smad2 may function as a tumor suppressor in normal cells.
Keywords	SMAD2; SMAD family member 2; JV18; MADH2; MADR2; JV18-1; hMAD-2; hSMAD2; mothers against decapentaplegic homolog 2; MAD homolog 2; mother against DPP homolog 2; Sma- and Mad-related protein 2; SMAD, mothers against DPP homolog 2;

GENE INFORMATION

Entrez Gene ID	4087
UniProt ID	Q15796

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221