

Product datasheet for TA321708

SMAD4 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IHC, WB

Recommended Dilution: WB: 200-1000

WB positive control: 293T cells

IHC: 25-100

Positive control: Human thyroid cancer

Predicted cell location: Nucleus and Cytoplasm

Reactivity: Human, Mouse, Rat

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

Immunogen: Fusion protein corresponding to a region derived from 14-227 amino acids of Human

Mothers against decapentaplegic homolog 4

Formulation: PBS pH7.3, 0.05% NaN3, 50% glycerol

Concentration: lot specific

Purification: Antigen affinity purification

Conjugation: Unconjugated

Storage: Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Gene Name: SMAD family member 4

Database Link: NP 005350

Entrez Gene 17128 MouseEntrez Gene 50554 RatEntrez Gene 4089 Human

Q13485



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Background:

This gene encodes a member of the Smad family of signal transduction proteins. Smad proteins are phosphorylated and activated by transmembrane serine-threonine receptor kinases in response to TGF-beta signaling. The product of this gene forms homomeric complexes and heteromeric complexes with other activated Smad proteins; which then accumulate in the nucleus and regulate the transcription of target genes. This protein binds to DNA and recognizes an 8-bp palindromic sequence (GTCTAGAC) called the Smad-binding element (SBE). The Smad proteins are subject to complex regulation by post-translational modifications. Mutations or deletions in this gene have been shown to result in pancreatic cancer; juvenile polyposis syndrome; and hereditary hemorrhagic telangiectasia syndrome.

Synonyms: DPC4; JIP; MADH4; MYHRS

Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Adherens junction, Cell cycle, Chronic myeloid leukemia, Colorectal cancer, Pancreatic cancer,

Pathways in cancer, TGF-beta signaling pathway, Wnt signaling pathway

Product images:



Gel: 8%SDS-PAGE Lysate: 40 µg Lane: 293T cells

Primary antibody: TA321708 (SMAD4 Antibody) at

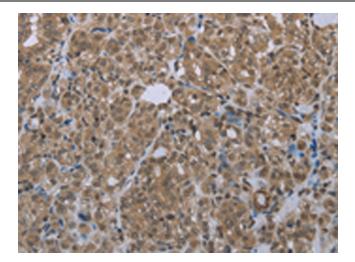
dilution 1/300

Secondary antibody: Goat anti rabbit IgG at

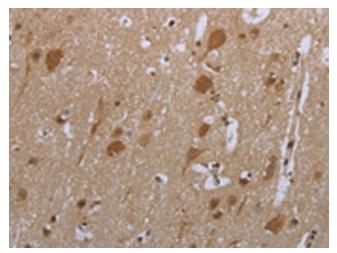
1/8000 dilution

Exposure time: 2 minutes





Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using TA321708 (SMAD4 Antibody) at dilution 1/20. (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human brain tissue using TA321708 (SMAD4 Antibody) at dilution 1/20. (Original magnification: ×200)