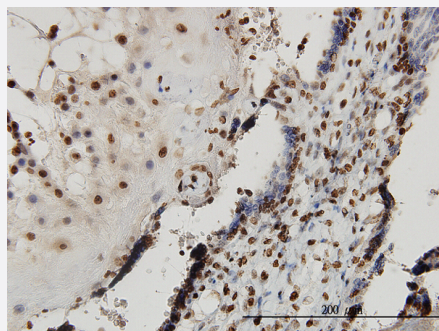


SMAD7 monoclonal antibody (M09), clone 1G10

Catalog # H00004092-M09

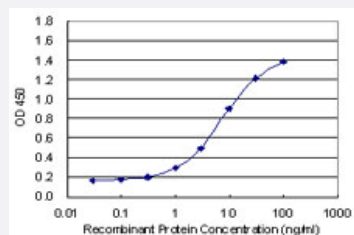
Size 100 ug

Applications



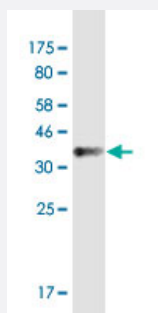
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to SMAD7 on formalin-fixed paraffin-embedded human placenta. [antibody concentration 3 ug/ml]



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged SMAD7 is 0.3 ng/ml as a capture antibody.



Western Blot detection against Immunogen (36.85 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a partial recombinant SMAD7.

Immunogen	SMAD7 (NP_005895, 160 a.a. ~ 260 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	CKVFRWPDLRHSSEVKRLCCCESYGKINPELVCCNPHHLSRLCELESPPPPYSRYPMDFLKPTA DCPDVAPSSAETGGTNYLAPGGLSDSQLLEPGDRSH
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (99); Rat (99)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.85 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to SMAD7 on formalin-fixed paraffin-embedded human placenta. [antibody concentration 3 ug/ml]

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged SMAD7 is 0.3 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — SMAD7

Entrez GeneID

[4092](#)

GeneBank Accession#	NM_005904
Protein Accession#	NP_005895
Gene Name	SMAD7
Gene Alias	CRCS3, FLJ16482, MADH7, MADH8
Gene Description	SMAD family member 7
Omim ID	114500 602932
Gene Ontology	Hyperlink
Gene Summary	Drosophila) homolog 7 MAD
Other Designations	MAD (mothers against decapentaplegic, Drosophila) homolog 7 MAD, mothers against decapentaplegic homolog 7 Mothers against decapentaplegic, drosophila, homolog of, 7 SMAD, mothers against DPP homolog 7

Publication Reference

- [SMAD7 is a novel independent predictor of survival in patients with cutaneous melanoma.](#)

Kaczorowski M, Biecek P, Donizy P, Pieniazek M, Matkowski R, Halon A.

Translational Research 2019 Feb; 204:72.

Application: IHC-P, Human, Human cutaneous melanoma

- [Association of the infiltration of tumor-associated macrophages, expression of Smad7 protein and prognosis in oral squamous cell carcinoma.](#)

Wei W, Hu-Jie C.

Archives of Oral Biology 2018 Nov; 95:22.

Application: IHC-P, Human, Human oral squamous cell carcinoma

- [Transforming growth factor-β1 SMAD effectors and medial cell number in ascending aorta diseases.](#)

Aparecida-Silva R, Borges LF, Kessler K, Dias RR, Moreira LFP, Kalil J, Gutierrez PS.

Cardiovascular pathology 2016 May; 25(3):240.

Application: IHC-P, Human, Aortic

- [Aberrant expression in multiple components of the transforming growth factor- \$\beta\$ 1-induced Smad signaling pathway during 7,12-dimethylbenz\[a\]anthracene-induced Hamster buccal-pouch squamous-cell carcinogenesis.](#)

Chen YK, Yang SH, Huang AH, Hsue SS, Lin LM.

Oral Oncology 2011 Apr; 47(4):262.

Application: IHC-P, Mouse, Mouse tumors

Pathway

- [TGF-beta signaling pathway](#)

Disease

- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Colorectal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Head and Neck Neoplasms](#)
- [Keloid](#)
- [Kidney Neoplasms](#)
- [Leukemia](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Obesity](#)
- [Ovarian Failure](#)

- [Polycystic Ovary Syndrome](#)
- [Puberty](#)
- [Thrombophilia](#)
- [Thyroid Neoplasms](#)
- [Tobacco Use Disorder](#)
- [Uterine Cervical Neoplasms](#)