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# Datasheet for ABIN517638 anti-SMAD4 antibody (AA 56-165)

3 Images



#### Overview

Quantity:	100 µg
Target:	SMAD4
Binding Specificity:	AA 56-165
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SMAD4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Proximity Ligation Assay (PLA)

## Product Details

Purpose:	Mouse monoclonal antibody raised against a partial recombinant SMAD4.
Immunogen:	SMAD4 (NP_005350, 56 a.a. ~ 165 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence:	SLITAITTNG AHPSKCVTIQ RTLDGRLQVA GRKGFPHVIY ARLWRWPDLH KNELKHVKYC QYAFDLKCDS VCVNPYHYER VVSPGIDLSG LTLQSNAPSS MMVKDEYVHD
Clone:	3D7
lsotype:	lgG2a
Cross-Reactivity:	Human
Characteristics:	Antibody Reactive Against Recombinant Protein.

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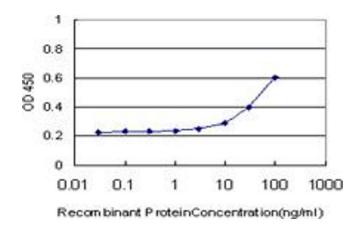
### Target Details

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Target:	SMAD4
Alternative Name:	SMAD4 (SMAD4 Products)
Background:	Full Gene Name: SMAD family member 4
	Synonyms: DPC4,JIP,MADH4
Gene ID:	4089
NCBI Accession:	NM_005359
Pathways:	Cell Division Cycle, Chromatin Binding, Autophagy
Application Details	
Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only
Handling	
Buffer:	In 1x PBS, pH 7.4
Handling Advice:	Aliquot to avoid repeated freezing and thawing.

Storage Comment: Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

#### Images

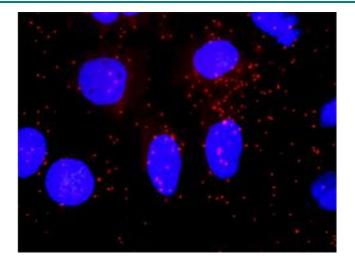
Storage:



-20 °C

#### **ELISA**

**Image 1.** Detection limit for recombinant GST tagged SMAD4 is approximately 3ng/ml as a capture antibody.

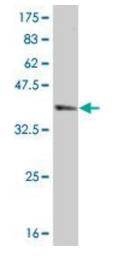


#### **Proximity Ligation Assay**

**Image 2.** Proximity Ligation Analysis of protein-protein interactions between AKT1 and SMAD4. Huh7 cells were stained with anti-AKT1 rabbit purified polyclonal 1:1200 and anti-SMAD4 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

#### Western Blotting

Image 3. Western Blot detection against Immunogen (37.84 KDa) .



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