

Anti-SP1 (pT739) Antibody

Rabbit polyclonal antibody to SP1 (pT739) Catalog # AP60515

Product Information

Application	WB, IHC
Primary Accession	<u>P08047</u>
Other Accession	<u>089090</u>
Reactivity	Human, Rat, Monkey, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	80693

Additional Information

Gene ID	6667
Other Names	TSFP1; Transcription factor Sp1
Target/Specificity	Recognizes endogenous levels of SP1 (pT739) protein.
Dilution	WB~~WB (1/500 - 1/1000), IHC (1/100 - 1/200) IHC~~WB (1/500 - 1/1000), IHC (1/100 - 1/200)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	SP1
Synonyms	TSFP1
Function	Transcription factor that can activate or repress transcription in response to physiological and pathological stimuli. Binds with high affinity to GC-rich motifs and regulates the expression of a large number of genes involved in a variety of processes such as cell growth, apoptosis, differentiation and immune responses. Highly regulated by post-translational modifications (phosphorylations, sumoylation, proteolytic cleavage, glycosylation and acetylation). Also binds the PDGFR-alpha G-box promoter. May have a role in modulating the cellular response to DNA damage. Implicated in chromatin remodeling. Plays an essential role in the regulation of FE65 gene expression. In complex with ATF7IP, maintains telomerase activity in cancer cells by inducing TERT and TERC gene expression. Isoform 3 is a stronger activator of transcription than isoform 1. Positively regulates the transcription of the core

	clock component BMAL1 (PubMed: <u>10391891</u> , PubMed: <u>11371615</u> , PubMed: <u>11904305</u> , PubMed: <u>14593115</u> , PubMed: <u>16377629</u> , PubMed: <u>16478997</u> , PubMed: <u>16943418</u> , PubMed: <u>17049555</u> , PubMed: <u>18171990</u> , PubMed: <u>18199680</u> , PubMed: <u>18239466</u> , PubMed: <u>18513490</u> , PubMed: <u>18619531</u> , PubMed: <u>19193796</u> , PubMed: <u>20091743</u> , PubMed: <u>21046154</u> , PubMed: <u>21798247</u>). Plays a role in the recruitment of SMARCA4/BRG1 on the c-FOS promoter. Plays a role in protecting cells against oxidative stress following brain injury by regulating the expression of RNF112 (By similarity).
Cellular Location	Nucleus. Cytoplasm. Note=Nuclear location is governed by glycosylated/phosphorylated states. Insulin promotes nuclear location, while glucagon favors cytoplasmic location
Tissue Location	Up-regulated in adenocarcinomas of the stomach (at protein level). Isoform 3 is ubiquitously expressed at low levels

Background

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human SP1 (pT739). The exact sequence is proprietary.

Images



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