

SP-100 Polyclonal Antibody

Catalog No :	YT4374
Reactivity :	Human;Mouse
Applications :	WB;IHC;IF;ELISA
Target :	SP-100
Fields :	>>Herpes simplex virus 1 infection;>>Viral carcinogenesis
Gene Name :	SP100
Protein Name :	Nuclear autoantigen Sp-100
Human Gene Id :	6672
Human Swiss Prot No :	P23497
Mouse Swiss Prot No :	O35892
Immunogen :	Synthesized peptide derived from SP-100 . at AA range: 250-330
Specificity :	SP-100 Polyclonal Antibody detects endogenous levels of SP-100 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 100kD

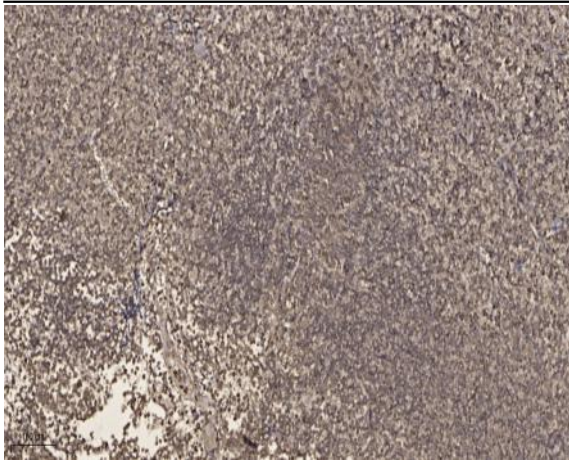
Background : This gene encodes a subnuclear organelle and major component of the PML (promyelocytic leukemia)-SP100 nuclear bodies. PML and SP100 are covalently modified by the SUMO-1 modifier, which is considered crucial to nuclear body interactions. The encoded protein binds heterochromatin proteins and is thought to play a role in tumorigenesis, immunity, and gene regulation. Alternatively spliced variants have been identified for this gene; one of which encodes a high-mobility group protein. [provided by RefSeq, Aug 2011],

Function : disease:This antigen is recognized by autoantibodies from patients with primary biliary cirrhosis (PBC).,domain:Contains one Pro-Xaa-Val-Xaa-Leu (PxVxL) motif, which is required for interaction with chromoshadow domains. This motif requires additional residues -7, -6, +4 and +5 of the central Val which contact the chromoshadow domain.,domain:The HSR domain is important for the nuclear body targeting as well as for the dimerization.,function:May play a role in the control of gene expression.,induction:By interferon.,miscellaneous:The major isoform Sp100-A, has a calculated MW of 54 kDa, but exhibits aberrant electrophoretic mobilities, with an apparent MW OF 100 kDa.,PTM:Phosphorylated.,PTM:Sumoylated. Sumoylation depends on a functional nuclear localization signal but is not necessary for nuclear import or nuclear body targeting.,similarity:Contains 1 HSR domain.,similarity:Contains 1 SA

Subcellular Location : Nucleus. Nucleus, PML body . Cytoplasm. Differences in the subnuclear localization of the different isoforms seem to exist and may also be cell cycle- and interferon-dependent. Accumulates in the cytoplasm upon FAS activation.; [Isoform Sp100-C]: Nucleus . Forms a reticulate or track-like nuclear pattern with denser concentrations at the nuclear lamina and surrounding the nucleoli, a pattern reminiscent of heterochromatin-rich regions according to PubMed:11313457.

Expression : Widely expressed. Sp100-B is expressed only in spleen, tonsil, thymus, mature B-cell line and some T-cell line, but not in brain, liver, muscle or non-lymphoid cell lines.

Products Images



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4 ° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).