



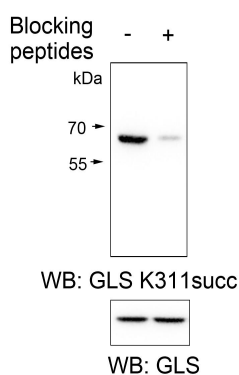
GLS (K311succinylation) Antibody

#58007

Number: 58007**Amount:** 100µg/100µl**Accession No. :**Swiss-Prot: O94925**Form of Antibody:** Rabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.**Storage/Stability:** Store at -20°C/1 year**Immunogen:** The antiserum was produced against synthesized Peptide sequence around succinylation site of lysine 311 derived from Human GLS.**Purification:** The antibody was produced by immunizing rabbits with synthetic succinylated peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific succinylated peptide. Non-succinyl specific antibodies were removed by chromatography using non-succinyl peptide.**Specificity/Sensitivity:** GLS(K311succinylation) antibody detects endogenous levels of GLS only when succinylated at lysine 311 .**Reactivity:** Human, Mouse, Rat**Applications:**

Predicted MW: 65 KD

WB :1:500~1:1000 IHC:1:50-100

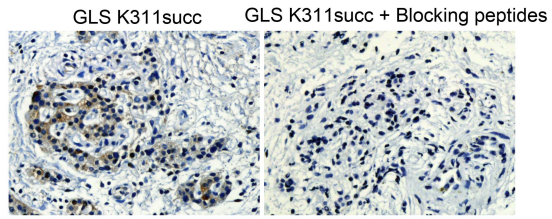


Western blot analysis of extracts from PANC-1 cells, using GLS K311 succinylation and GLS antibodies in the absence or presence of K311succ peptide.

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Immunohistochemical analysis of paraffin-embedded human pancreatic cancer tissue using GLS K311 succinylation antibody in the absence or presence of K311succ peptide.

Background :GLS is an phosphate-activated amidohydrolase that catalyzes the hydrolysis of glutamine to glutamate and ammonia. This protein is primarily expressed in the brain and kidney plays an essential role in generating energy for metabolism, synthesizing the brain neurotransmitter glutamate and maintaining acid-base balance in the kidney. Lysine 311 of GLS could be succinylated under oxidative stress, thus promoting GLS tetramer formation and activity (Tong et al. Mol Cell. 2021).