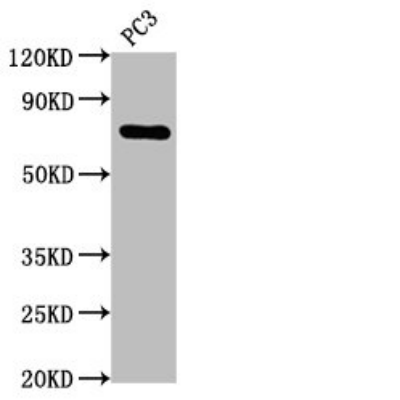
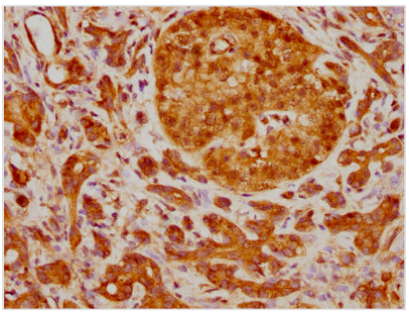
TP63 Recombinant Monoclonal Antibody

Product Code	CSB-RA887971A0HU
Abbreviation	Tumor protein 63
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q9H3D4
Immunogen	A synthesized peptide derived from human TP63
Species Reactivity	Human
Tested Applications	ELISA, WB, IHC; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200
Relevance	Acts as a sequence specific DNA binding transcriptional activator or repressor. The isoforms contain a varying set of transactivation and auto-regulating transactivation inhibiting domains thus showing an isoform specific activity. Isoform 2 activates RIPK4 transcription. May be required in conjunction with TP73/p73 for initiation of p53/TP53 dependent apoptosis in response to genotoxic insults and the presence of activated oncogenes. Involved in Notch signaling by probably inducing JAG1 and JAG2. Plays a role in the regulation of epithelial morphogenesis. The ratio of DeltaN-type and TA*-type isoforms may govern the maintenance of epithelial stem cell compartments and regulate the initiation of epithelial stratification from the undifferentiated embryonal ectoderm. Required for limb formation from the apical ectodermal ridge. Activates transcription of the p21 promoter.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Alias	Tumor protein 63, p63, Chronic ulcerative stomatitis protein, CUSP, Keratinocyte transcription factor KET, Transformation-related protein 63, TP63, Tumor protein p73-like, p73L, p40, p51, TP63, KET, P63, P73H, P73L, TP73L
Immunogen Species	Homo sapiens (Human)
Research Area	Cell Biology
Gene Names	TP63
Clone No.	4B3
Image	



Western Blot
Positive WB detected in: PC3 whole cell lysate
All lanes: TP63 antibody at 2.1μg/ml
Secondary
Goat polyclonal to rabbit IgG at 1/50000 dilution
Predicted band size: 66, 63, 52, 56, 45, 58, 47, 68, 57, 77 KDa
Observed band size: 77 KDa



IHC image of CSB-RA887971A0HU diluted at 1:210 and staining in paraffin-embedded human pancreatic cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4? overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.

Description

CUSABIO employs a systematic approach to generate the TP63 antibody. The process begins with immunizing an animal using a synthesized peptide derived from human TP63, which stimulates the production of antibodies. Subsequently, B cells are isolated from the immunized animal. Selecting positive B cells and identifying the single clone. The resulting TP63 antibody gene is synthesized. CUSABIO inserts the TP63 antibody gene into plasma vectors and introduces them into mammalian cells using a lipid-based transfection reagent. Following transient expression, the recombinant antibodies targeting TP63 are harvested from the culture medium. To ensure purity, the TP63 recombinant monoclonal antibody is purified through affinity chromatography. This high-quality antibody is specifically designed for detecting human TP63 protein in ELISA, WB, and IHC experiments, offering reliable and accurate results.