Product datasheet

anti-p53 Protein mouse monoclonal, Bp53.11, liquid, purified

Short overview

Cat. No.	690039
Quantity	1 ml (50 µg/ml)
Concentration	50 µg/ml (50 µg)

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG2a
Clone	Bp53.11
Immunogen	Recombinant human p53 (transcription domain within the NH2 terminus)
Formulation	PBS, pH 7.4 with 0.09% sodium azide and 0.5% BSA
UniprotID	Q96A56 (Human)
Synomym	Tumor protein p53-inducible nuclear protein 1, Stress-induced protein, p53-dependent damage-inducible nuclear protein 1, p53DINP1, TP53INP1, P53DINP1, SIP
Conjugate	Unconjugated
Purification	Affinity chromatography
Storage	Short term at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles
Intended use	Research use only
Application	ICC/IF, IHC, WB
Reactivity	Human

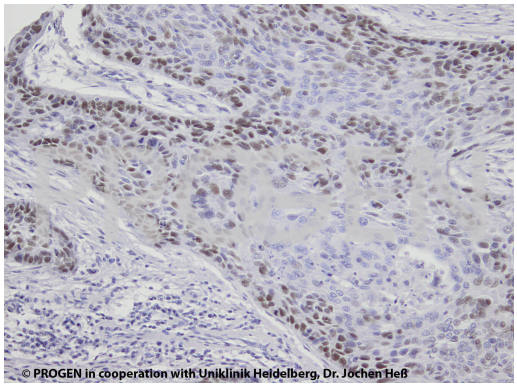
Applications

Immunocytochemistry (ICC)	Assay dependent
Immunohistochemistry (IHC) - frozen	1:1,000-1:3,000 (17-50 ng/ml)
Immunohistochemistry (IHC) - paraffin	1:1,000-1:3,000 (17-50 ng/ml, microwave treatment recommended)
Western Blot (WB)	1:2,000-1:10,000 (5-25 ng/ml)

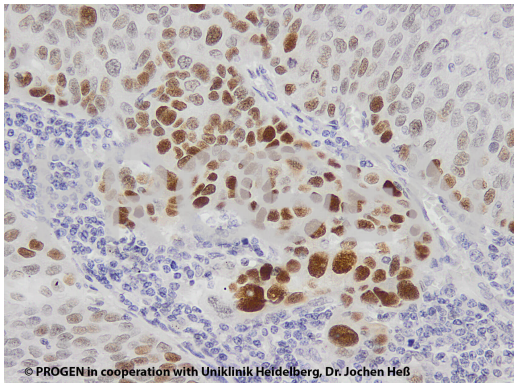
Background

Excellent marker for wild-type and mutant forms of human p53 antigen. Epitope recognized by Bp53.11: 20-SDLWKLLPENNV-31. The antibody stains positively approx. 60% of investigated carcinoma of lung, breast, colon, stomach, esophagus, pancreas, urinary bladder and testis, head and neck tumors; T-cell Leukemia, non-Hodgkin-Lymphoma, melanoma, sarcoma.Reactivity on cultured cell lines: Hela, MCF-7.

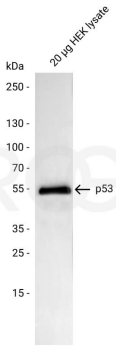
Product images



p53 staining in human squamous cell carcinoma (image courtesy of J.Heß, University Hospital Heidelberg)



p53 staining in human squamous cell carcinoma (image courtesy of J.Heß, University Hospital Heidelberg)



Western blot analysis of HEK lysate with anti-p53 antibody. Western blot analysis was performed on 20 µg HEK lysate. The PVDF membrane was blocked with 5% milk in PBST (PBS + 0.1% Tween 20) for 1 h at RT. The primary antibody anti-p53, mouse monoclonal, Bp53.11 (Cat. No. 690039) was diluted in blocking buffer (antibody concentration 25 ng/ml) and incubated for 1 h at RT. The secondary antibody anti-mouse IgG goat polyclonal, HRP conjugate was also diluted in blocking buffer (antibody concentration 200 ng/ml) and incubated for 1 h at RT. The bands were visualized by chemiluminescent detection using PierceTM ECL Western Blotting Substrate.

References

Publication	Species	Application
Deng, Z. et al. Methylation of CpG sites in the upstream regulatory region, physical status and mRNA expression of HPV-6 in adult-onset laryngeal papilloma. Oncotarget. 8, 85368-85377 (2017)	human	IHC
OhtakÃ©, S. et al. Precancerous foci in pleomorphic adenoma of the salivary gland: recognition of focal carcinoma and atypical tumor cells by P53 immunohistochemistry. J. Oral Pathol. Med. 31, 590â€“7 (2002).	human	IHC (paraffin)
Vispo, N. S., AraÃ±a, M. J., Chinea, G., Ojalvo,Â a G. & Cesareni, G. Characterisation of epitopes on human p53 using phage-displayed peptide libraries: insights into antibody-peptide interactions. Hybridoma 18, 251â€“255 (1995).		epitope mapping
Fack, F. et al. Epitope mapping by phage display: Random versus gene-fragment libraries. J. Immunol. Methods 206, 43â€“52 (1997).		epitope mapping
BÃ¡rtek, J. et al. Immunohistochemical analysis of the p53 oncoprotein on paraffin sections using a series of novel monoclonal antibodies. J. Pathol. 169, 27â€“34 (1993).	human	WB,IHC (paraffin)