

Product datasheet

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

Short overview

Cat. No.	61039
Quantity	50 µg (2x25 µg vials)
Concentration	25 µg/ml after reconstitution with 1 ml dist. water

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG2a
Clone	Bp53.11
Immunogen	Recombinant human p53 (transcription domain within the NH2 terminus)
Formulation	Lyophilized; reconstitute 1 vial in 1 ml dist. water (final solution contains 0.09% sodium azide, 0.5% BSA in PBS buffer, pH 7.4; final concentration 25 µg/ml)
UniprotID	Q96A56 (Human)
Synonym	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 before reconstitution	2-8°C until indicated expiry date
Storage after reconstitution	Up to 3 months 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

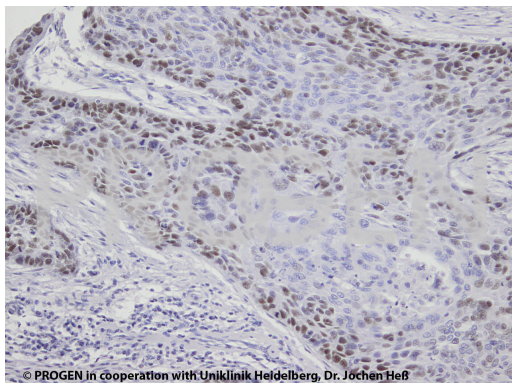
Applications

Immunocytochemistry (ICC)	Assay dependent
Immunohistochemistry (IHC) - frozen	1:500-1:1,500 (17-50 ng/ml)
Immunohistochemistry (IHC) - paraffin	1:500-1:1,500 (17-50 ng/ml, microwave treatment recommended)
Western Blot (WB)	1:1,000-1:5,000 (5-25 ng/ml)

Background

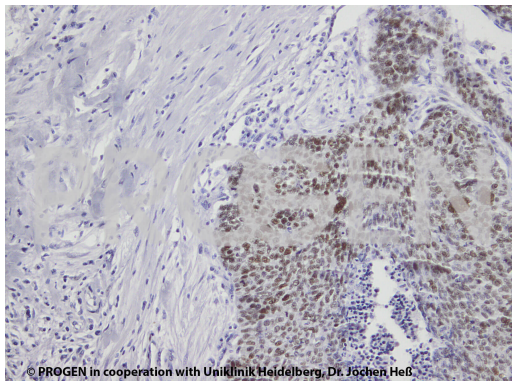
Excellent marker for wild-type and mutant forms of human p53 antigen. Epitope recognized by Bp53.11: 20-SDLWKLLPENNV-31. The antibody stains positively approx. 60% of investigated carcinoma of lung, breast, colon, stomach, esophagus, pancreas, urinary bladder and testis, head and neck tumors; T-cell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

Product images



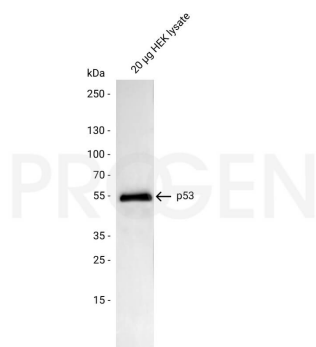
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p53 staining in human squamous cell carcinoma (image courtesy of J.Heß, University Hospital Heidelberg)



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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 Pierce™ 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,Ã 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
BÃ¼rtek, 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)