

Nano-Traps against p53-N-term, p53-C-term & Mdm4/ HdmX for Immunoprecipitation

Pulldown of the p53 proteome with complementary p53-N-term & p53-C-term Traps

- ▶ No heavy & light antibody chains in downstream applications
- ▶ Pull down of human p53 isoforms alpha, beta and gamma with p53 N-term-Trap
- ▶ Pull down of human and mice p53 isoforms alpha with p53 C-term-Trap
- ▶ Pull down of human Mdm4/ HdmX with Mdm4/ HdmX-Trap

p53-N-term-Trap

Specificity: human
Epitope: aa 1-81

p53-C-term-Trap

Specificity: human, mouse
Epitope: aa 302-393

Mdm4/ HdmX-Trap

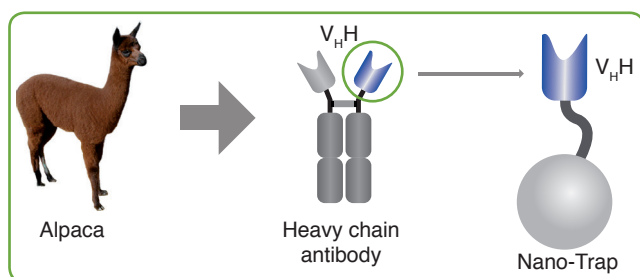
Specificity: human
Epitope: aa 1-129

Applications

Use Nano-Traps for:

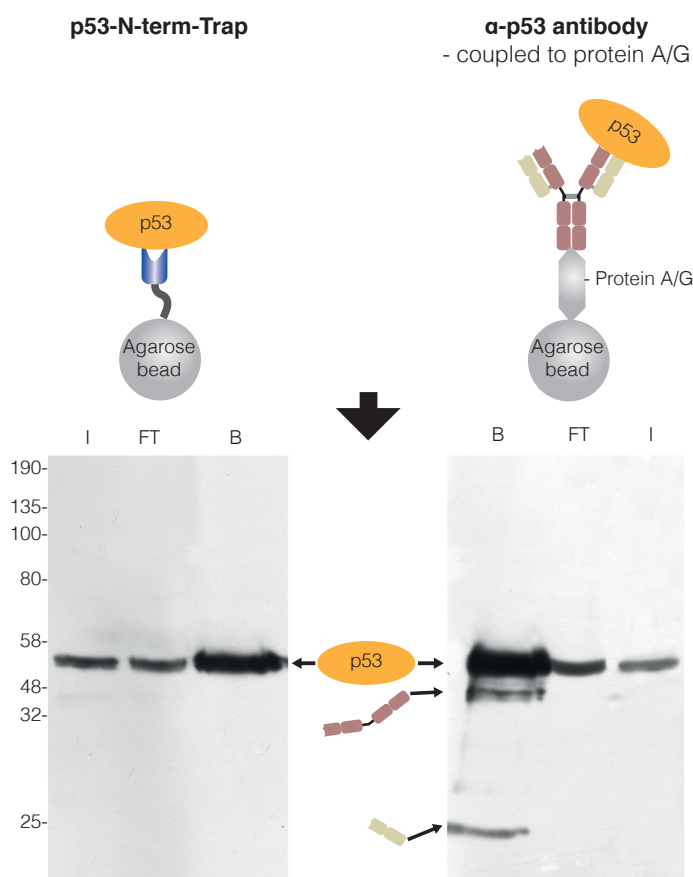
- Immunoprecipitation (IP)/ Co-IP
- Mass spectrometry

Technology



Beside conventional antibodies, *Camelidae* (alpacas, llamas and camels) possess a second type of antibodies called heavy chain antibodies (hcAbs). HcAbs are devoid of light chains and bind their antigen via a single variable domain (V_HH). These V_HH domains, also known as nanobody, have excellent binding properties and work, coupled to agarose beads, as superior tools for immunoprecipitations.

Immunoprecipitation of proteins with Nano-Traps



No antibody contaminations using Nano-Traps: Just the protein of interest

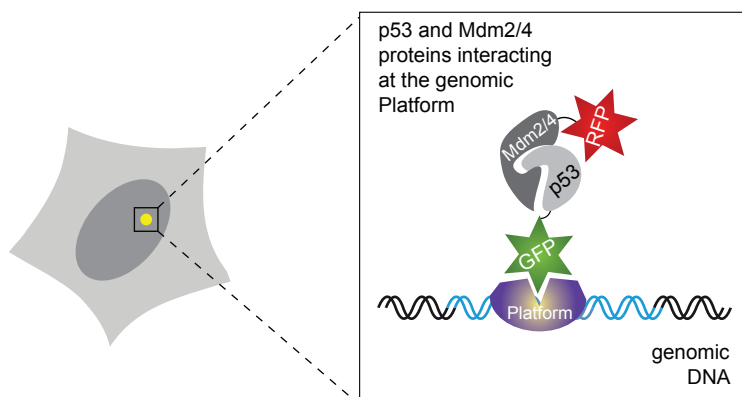
Immunoprecipitations of p53 from human cells expressing p53. Input (I), non-bound (FT) and bound (B) fractions were separated by SDS-PAGE followed by Western Blotting.

F2H®-Kits p53-Mdm2 and p53-Mdm4

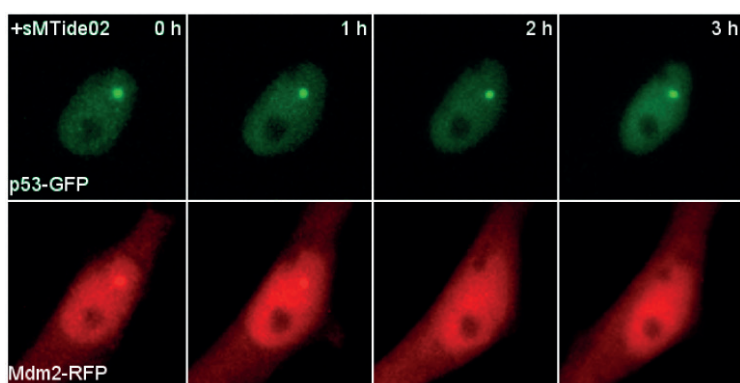
Analyze protein interaction between p53 & its inhibitors Mdm2 or Mdm4

- ▶ Visualized in live mammalian cells
- ▶ Convenient readout using an epi-fluorescence microscope

ChromoTek's F2H® technology platform is a well-established system for screening protein-protein interactions. The assay enables the analysis of the interaction of proteins and/or protein domains in live mammalian cells.



The F2H®-Kit p53/Mdm2 or F2H®-Kit p53/Mdm4 allow intracellular analysis of the interaction between p53 and its negative regulators Mdm2 or Mdm4. In this assay, GFP-tagged human p53 is forming a green fluorescent spot. Interaction with the RFP-tagged human Mdm2 or Mdm4 can be easily evaluated by fluorescence microscopy as enrichment of red fluorescence at the green spot. Compounds' ability to disrupt the p53/Mdm2 or p53/Mdm4 interactions are determined based on the disappearance of the red spot.



Upon incubation with the inhibitory stapled peptide sMTide02, red spot fades out, indicating disruption of the interaction.

Order information

Product name	Size	Code
	10 rxns (250µl resin)	pta-10
p53 N-term-Trap	20 rxns (500µl resin)	pta-20
▶ coupled to agarose beads	100 rxns (2.5ml resin)	pta-100
	200 rxns (5ml resin)	pta-200
	400 rxns (10ml resin)	pta-400
p53 N-term-Trap Kit		
▶ p53 N-term-Trap	20 rxns (500µl resin)	ptak-20
▶ incl. lysis, wash and elution buffers		
p53 N-term-Trap	250µl	pt-250
▶ purified protein		
	10 rxns (250µl resin)	pta2-10
p53 C-term-Trap	20 rxns (500µl resin)	pta2-20
▶ coupled to agarose beads	100 rxns (2.5ml resin)	pta2-100
	200 rxns (5ml resin)	pta2-200
	400 rxns (10ml resin)	pta2-400
p53 C-term-Trap Kit		
▶ p53 C-term-Trap	20 rxns (500µl resin)	pta2k-20
▶ incl. lysis, wash and elution buffers		
p53 C-term-Trap	250µl	pt2-250
▶ purified protein		
	10 rxns (250µl resin)	hta-10
Mdm4/ HdmX-Trap	20 rxns (500µl resin)	hta-20
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Mdm4/ HdmX-Trap Kit		
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Mdm4/ HdmX-Trap	250µl	ht-250
▶ purified protein		
F2H®-Kit p53/Mdm2		
▶ F2H®-BHK Cell Line	1 pc	f2hk- p53/ mdm2
▶ Platform-p53-Mdm2		
▶ Control-p53		
F2H®-Kit p53/Mdm4		
▶ F2H®-BHK Cell Line	1 pc	f2hk- p53/ mdm4
▶ Platform-p53-Mdm4		
▶ Control-p53		
Platform-p53-Mdm2	100µg	f2h-ppm2
Platform-p53-Mdm4	100µg	f2h-ppm4
Control-p53	30µg	f2h-cp

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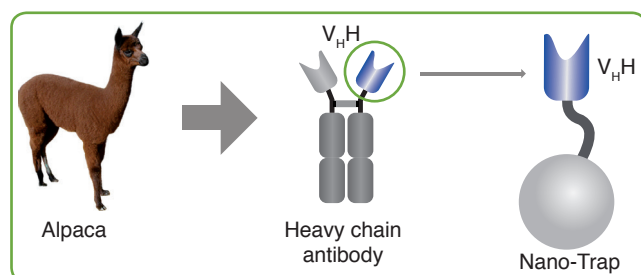
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Applications

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- Mass spectrometry

Technology

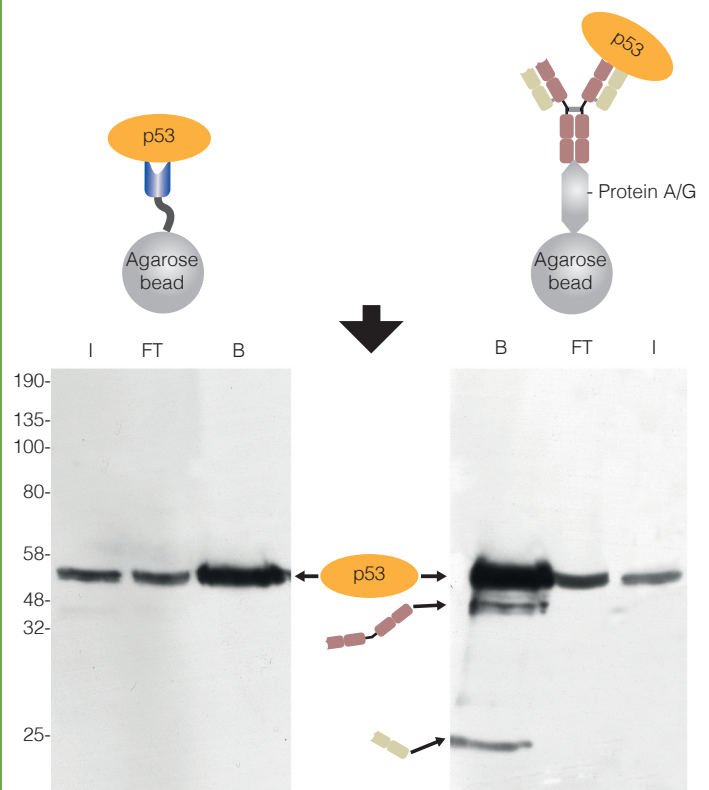


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Immunoprecipitation of proteins with Nano-Traps

p53-N-term-Trap

α-p53 antibody - coupled to protein A/G



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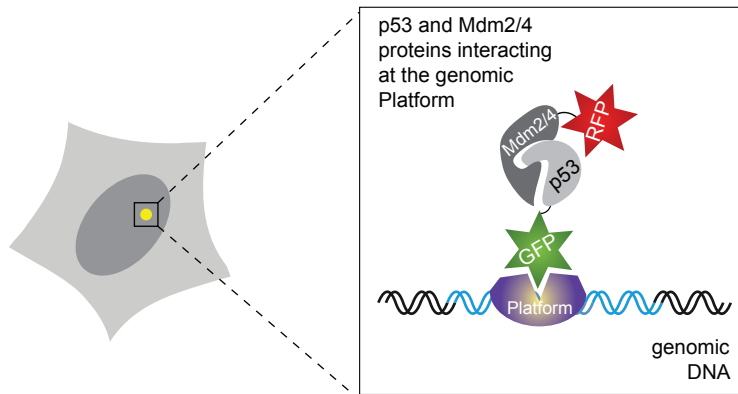
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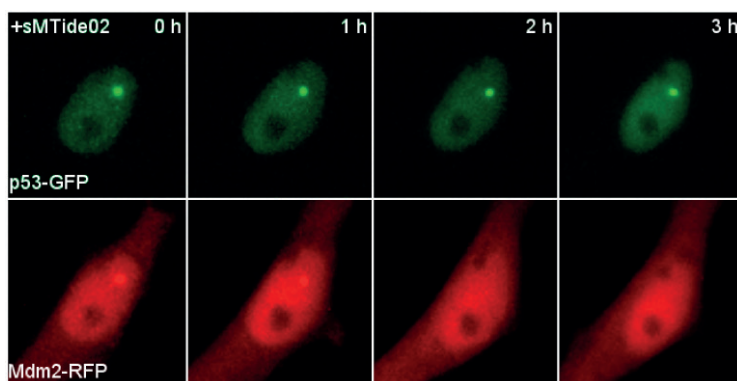
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▶ F2H [®] -BHK Cell Line	1 pc	f2hk- p53/ mdm2
▶ Platform-p53-Mdm2		
▶ Control-p53		
F2H [®] -Kit p53/Mdm4		
▶ F2H [®] -BHK Cell Line	1 pc	f2hk- p53/ mdm4
▶ Platform-p53-Mdm4		
▶ Control-p53		
Platform-p53-Mdm2	100µg	f2h-ppm2
Platform-p53-Mdm4	100µg	f2h-ppm4
Control-p53	30µg	f2h-cp

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