

RFP-Trap for Immunoprecipitation

From cell to gel in less than one hour

- ▶ No heavy & light chains in your downstream application
- ▶ Robust performance with high yield
- ▶ Short incubation time of about 30 minutes

For mCherry, mRFP, etc.

RFP-Trap®

ChromoTek RFP-Trap is a fully validated, well-established tool for fast and efficient one-step immunoprecipitation of RFP-fusion protein variants and their interacting factors from cell extracts or organelles. For research applications only.

Applications

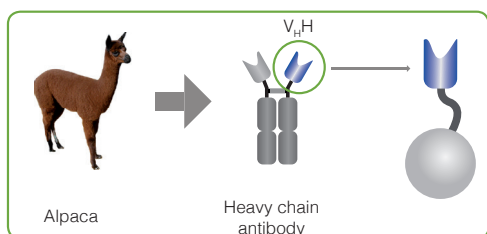
- Immunoprecipitation (IP) / Co-IP
- Mass spectrometry
- Enzyme activity measurements
- ChIP / RIP analysis

Recognizes common RFP variants

- Including mCherry, mKate2, mPlum, mRFP, mRFPruby, tagRFP etc.
- Complete list at www.chromotek.com

Technology

Camelidae, e.g. alpacas, possess a type of antibodies called heavy chain antibodies. These are devoid of light chains and bind their antigen via a single variable domain (V_H), also known as a nanobody. RFP-Trap consists of an alpaca single domain antibody that is coupled to agarose, magnetic agarose, and magnetic beads.



RFP-Trap:
anti-RFP V_H
coupled to beads

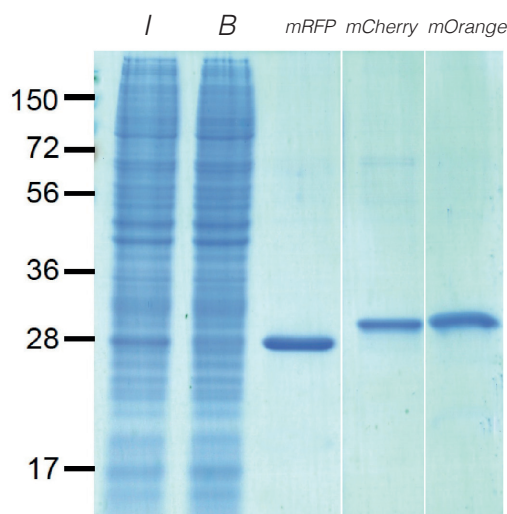
Properties

- Highly affine with a low dissociation constant of 4nM
- Very high binding capacity of more than 8µg RFP per 10µl slurry; magnetic beads less
- Stable in harsh conditions up to 2M NaCl or 2M urea
- Versatile: coupled to agarose, magnetic agarose, and magnetic beads

Validated affinity reagent

- Structure and function are fully characterized
- Produced at constant high quality virtually without batch-to-batch variation
- Proven: used for experiments published in more than 50 scientific articles

Single band purification



Effective immunoprecipitations from protein extracts of human cells. Input (I), non-bound (FT) and bound fractions of mRFP, mCherry & mOrange were separated by SDS-PAGE followed by Coomassie staining.

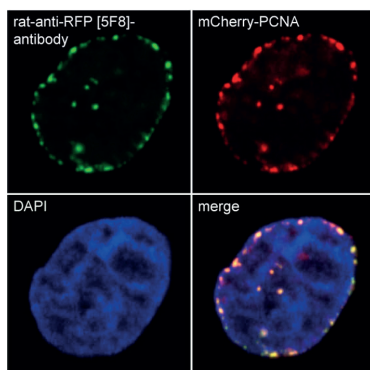
anti-RFP IgG Antibody 5F8 for IF

The most frequently cited anti-RFP antibody

- ▶ **First in class: more than 100 publications**
- ▶ **Validated rat monoclonal antibody subtype IgG2a**

anti-mRFP IgG antibody 5F8

ChromoTek anti-RFP antibody 5F8 is a reliable tool for sensitive detection of RFP-fusion protein variants in immunofluorescence (IF). It is ranked #1 referenced anti-RFP antibody at www.citeAB.com. For research applications only.



IF of HeLa cells stably expressing mCherry-PCNA

Specificity

Tested on dsRed, mCherry, mPlum, mRFP, mRFPruby

Applications

Immunofluorescence, ELISA, Immunoprecipitation

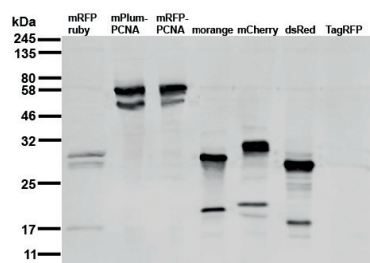
anti-RFP IgG Antibody 6G6 for WB

Exceptional detection of red fluorescent protein variants

- ▶ **Very sensitive: down to 4ng RFP / band**
- ▶ **Validated mouse monoclonal antibody subtype IgG2c**

anti-RFP IgG antibody 6G6

ChromoTek anti-RFP antibody 6G6 is an exceptional tool for sensitive detection of RFP-fusion protein derivatives in Western blots (WB). For research applications only.



WB cell extract of HEK cells transiently expressing different red fluorescent proteins

Specificity

Tested on dsRed, mCherry, mOrange, mPlum, mRFP, mRFPruby

Applications

Western blot

Order information

Product name & description	Size	Code
RFP-Trap A	10 rxns	rta-10
▶ anti-RFP V _H H	20 rxns	rta-20
coupled to agarose beads	100 rxns	rta-100
	200 rxns	rta-200
	400 rxns	rta-400
RFP-Trap A Kit		
▶ RFP-Trap A	20 rxns	rtak-20
▶ incl. lysis, wash and elution buffers		
RFP-Trap MA	10 rxns	rtma-10
▶ anti-RFP V _H H	20 rxns	rtma-20
coupled to magnetic agarose beads	100 rxns	rtma-100
	200 rxns	rtma-200
	400 rxns	rtma-400
RFP-Trap MA Kit		
▶ RFP-Trap MA	20 rxns	rtmak-20
▶ incl. lysis, wash and elution buffers		
RFP-Trap M	10 rxns	rtm-10
▶ anti-RFP V _H H	20 rxns	rtm-20
coupled to magnetic agarose beads	100 rxns	rtm-100
	200 rxns	rtm-200
	400 rxns	rtm-400
RFP-Trap M Kit		
▶ RFP-Trap M	20 rxns	rtmk-20
▶ incl. lysis, wash and elution buffers		
Spin columns	10 units	sct-10
	20 units	sct-20
	50 units	sct-50
Binding control	20 rxns	bab-20
▶ agarose beads		
Binding control	20 rxns	bmab-20
▶ magnetic agarose beads		
Binding control	20 rxns	bmp-20
▶ magnetic agarose beads		
anti-RFP antibodies:		
anti-RFP V _H H/RFP binding protein		
▶ Camelid; purified V _H H protein for IP, ELISA, and IF. Used in RFP-Trap	250µg	rt-250
anti-RFP antibody [5F8]	20µl	5F8-20
▶ Rat monoclonal IgG2a for Immunofluorescence	100µl	5F8-100
anti-RFP antibody [6G6]	20µl	6G6-20
▶ Mouse monoclonal IgG2c for Western Blotting	100µl	6G6-100

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