

Chromobody®		Plasmid / Lentivirus / Stable Cell Line				Literature
Target	Species	Plasmid		Lentivirus		
		tagGFP	tagRFP	tagGFP	tagRFP	
Actin (Cytoskeleton, Cytoplasm)	H.s.; M.m. etc. (conserved epitope)	x	x	x HeLa (human) MDA-MB-231 (human) MCF7 (human) A549 (human) PC3 (human) LnCAP (human) MDCK (dog) HuH7 (human) HepG2 (human)	x	Rocchetti A, Hawes C, Kriechbaumer C; <i>Fluorescent labelling of the actin cytoskeleton in plants using a cameloid antibody</i> Plant Methods (2012); 10(1),12. Panza P, Maier J, Schmees C, Rothbauer U, Söllner C; <i>Live imaging of endogenous protein dynamics in zebrafish using chromobodies</i> . Development (2015); May 15;142(10):1879-84. Melak P, Plessner M, Grosse R; <i>Actin visualization at a glance</i> . J Cell Science (2017); epub ahead of print
Nuclear Actin	H.s.; M.m. etc. (conserved epitope)	x				Plessner M, Melak M, Chinchilla P, Baarlink C, Grosse R; <i>Nuclear F-actin formation and reorganization upon cell spreading</i> . J Biol Chem , (2015); 290.18: 11209 - 11216
Lamin (Nuclear Morphology)	H.s.; M.m. etc. (conserved epitope)	x HeLa (human) U2OS (human)	x HeLa (human) U2OS (human)	x		Zolghadr K, Gregor J, Leonhardt H, Rothbauer U; <i>Case study on live cell apoptosis-assay using lamin-chromobody cell-lines for high-content analysis</i> . Methods Mol Biol . 2012;911:569-75
DNMT1 (DNA Methylation, Nucleus)	H.s.; M.m.	x	x			-
Vimentin (Interm. Filaments, Cytoplasm)	H.s.; M.m.;	x	x	x A549 (human) MDCK (dog)	x A549 (human) MDCK (dog)	Maier J, Traenkle B, Rothbauer U; <i>Real-time analysis of epithelial-mesenchymal transition using fluorescent nanobodies</i> . Scientific Reports (2015); 5:13402 Maier J, Traenkle B, Rothbauer U. <i>Visualising epithelial-mesenchymal transition (EMT) using the Chromobody Technology</i> . Cancer Research (2016); 76(19), 5592 – 5596

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beta-Catenin (Signal Transduction, Cytoplasm/ Nucleus)	H.s., M.m.	x	x	x HeLa (human) HEK293 (human)	x	Traenkle B, Emele F, Anton R, Poetz O, Haeussler RS, Maier J, Kaiser PD, Scholz AM, Nueske S, Buchfellner A, Romer T, Rothbauer U; <i>Monitoring interactions and dynamics of endogenous beta-catenin with intracellular nanobodies in living cells. Mol Cell Proteomics</i> (2015); Mar;14(3):707-23.
PARP1 (DNA repair; nucleus, nucleoli)	H.s.	x	HeLa (human)	x		Buchfellner A, Yurlova L, Nueske S, Scholz A, Bogner J, Ruf B, Zolghadr K, Romer T, Friedl A; Rothbauer U; <i>A new nanobody-based biosensor to study endogenous PARP1 in vitro and in live human cells. PLoS One</i> ; (2016), 11(3):e0151041.
PCNA ("Cell Cycle"; Nucleus)	H.s.; M.m. etc. (conserved epitope)	x HeLa (human) U2OS (human)	x HeLa (human) U2OS (human)		x PC3 (human)	Burgess A, Lorca T, Castro A; Quantitative live imaging of endogenous DNA replication in mammalian cells. <i>PLoS one</i> (2012); 7(9), e45726. Akopyan K, Cascales H S, Hukasova E, Saurin A T, Müllers E, Jaiswal H, Lindqvist A; <i>Assessing kinetics from fixed cells reveals activation of the mitotic entry network at the S/G2 transition. Molecular cell</i> (2014); 53(5), 843-853. Drexler G A, Siebenwirth C, Drexler S E, Girst S, Greubel C, Dollinger G, Friedl A; <i>Live cell imaging at the Munich ion microbeam SNAKE—a status report. Radiation Oncology</i> (2015); 10(1), 42. Panza P, Maier J, Schmees C, Rothbauer U, Söllner C; <i>Live imaging of endogenous protein dynamics in zebrafish using chromobodies. Development</i> (2015); May 15;142(10):1879-84. Schorpp K, Rothnagener I, Maier J, Traenkle B, Rothbauer U, Hadian, K; <i>A multiplexed high-content screening approach using the chromobody technology to identify cell cycle modulators in living cells. Journal of biomolecular screening</i> (2016); 1087057116641935.
HIV p24		HeLa (human)	HeLa (human)			Helma J, Schmidthals K, Lux V, Nüske S, Scholz AM, Kräusslich HG, Rothbauer U, Leonhardt H. Direct and dynamic detection of HIV-1 in living cells. <i>PLoS One</i> . 2012;7(11):e50026