

RFP

Cat.No. 390 011; Monoclonal mouse antibody, 100 µg purified IgG (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µg purified IgG, lyophilized. Azide was added before lyophilization. For reconstitution add 100 µl H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	WB: not recommended IP: not tested yet ICC: 1 : 500 IHC: not tested yet IHC-P/FFPE: not tested yet
Clone	115D6
Subtype	IgG2b (κ light chain)
Immunogen	Recombinant protein corresponding to AA 1 to 225 from sea anemone RFP (UniProt Id: Q9U6Y8)
Specificity	Recognizes mRFP, mCherry, mOrgange2, and Scarlet. Does not detect dsRed and tdTomato.

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

Red fluorescent protein **RFP** and its derivatives have become universal tools in cell biology. Most RFPs derive from a protein isolated from *Discosoma* sp. They are used as fluorescent tags to investigate expression levels, patterns and protein localization.

Selected General References

Ubiquitous expression of the monomeric red fluorescent protein mCherry in transgenic mice.
Fink D, Wohrer S, Pfeffer M, Tombe T, Ong CJ, Sorensen PH
Genesis (New York, N.Y. : 2000) (2010) 48(12): 723-9.

Improved monomeric red, orange and yellow fluorescent proteins derived from *Discosoma* sp. red fluorescent protein.
Shaner NC, Campbell RE, Steinbach PA, Giepmans BN, Palmer AE, Tsien RY
Nature biotechnology (2004) 22(12): 1567-72.

Diversity and evolution of the green fluorescent protein family.
Labas YA, Gurskaya NG, Yanushevich YG, Fradkov AF, Lukyanov KA, Lukyanov SA, Matz MV
Proceedings of the National Academy of Sciences of the United States of America (2002) 99(7): 4256-61.

Novel fluorescent protein from *Discosoma* coral and its mutants possesses a unique far-red fluorescence.
Fradkov AF, Chen Y, Ding L, Barsova EV, Matz MV, Lukyanov SA
FEBS letters (2000) 479(3): 127-30.