

BrdU Monoclonal Antibody (MoBU-1), Alexa Fluor™ 555

Catalog NumberB35131

Product data sheet

Details		Species Reactivity	
Size	350 µL	Published species	Not Applicable
Host/Isotope	Mouse / IgG	Tested Applications	
Class	Monoclonal	Immunohistochemistry (IHC)	Dilution *
Type	Antibody	Published Applications	
Clone	MoBU-1	Miscellaneous PubMed (Misc)	See 3 publications below
Immunogen	BrdU	<div>* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.</div>	
Conjugate	Alexa Fluor™ 555		
Form	Liquid		
Concentration	0.2 mg/mL		
Storage Conditions	4° C		

Background/Target Information

Bromodeoxyuridine (5-bromo-2-deoxyuridine, BrdU) is a synthetic nucleoside that is an analogue of thymidine. BrdU is commonly used in the detection of proliferating cells in living tissues, and can be incorporated into the newly synthesized DNA of replicating cells (during the S phase of the cell cycle), substituting for thymidine during DNA replication. Antibodies specific for BrdU can then be used to detect the incorporated chemical, thus indicating cells that were actively replicating their DNA. Binding of the antibody requires denaturation of the DNA, usually by exposing the cells to acid or heat.

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PubMed References For BrdU Monoclonal Antibody (MoBU-1), Alexa Fluor™ 555

3 Miscellaneous PubMed References

Species / Dilution	Summary
	B35131 was used in immunocytochemistry to develop and assess a peptide amphiphilic molecule that incorporates a peptide mimetic for GLP-1.
Not Applicable / 1:100	Acta biomaterialia (2012; 8: 1685) "Self-assembling glucagon-like peptide 1-mimetic peptide amphiphiles for enhanced activity and proliferation of insulin-secreting cells." Author(s):Khan S, Sur S, Newcomb CJ, Appelt EA, Stupp SI PubMed Article URL: http://dx.doi.org/10.1016/j.actbio.2012.01.036
	B35131 was used in immunocytochemistry to study how ALDH1A2 function and treatment failure for oropharyngeal squamous cell carcinoma are related
Not Applicable / 1:100	Molecular cancer (2015; 14:) "Impaired aldehyde dehydrogenase 1 subfamily member 2A-dependent retinoic acid signaling is related with a mesenchymal-like phenotype and an unfavorable prognosis of head and neck squamous cell carcinoma." Author(s):Seidensaal K, Nollert A, Feige AH, Muller M, Fleming T, Gunkel N, Zaoui K, Grabe N, Weichert W, Weber KJ, Plinkert P, Simon C, Hess J PubMed Article URL: http://dx.doi.org/10.1186/s12943-015-0476-0
	B35131 was used in immunohistochemistry to investigate the role of Sox2 in postmitotic cells.
Not Applicable / 1:50	The Journal of neuroscience : the official journal of the Society for Neuroscience (2012; 32: 10530) "Regulation of p27Kip1 by Sox2 maintains quiescence of inner pillar cells in the murine auditory sensory epithelium." Author(s):Liu Z, Walters BJ, Owen T, Brimble MA, Steigelman KA, Zhang L, Mellado Lagarde MM, Valentine MB, Yu Y, Cox BC, Zuo J PubMed Article URL: http://dx.doi.org/10.1523/JNEUROSCI.0686-12.2012

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