

# Product Datasheet

## beta-Actin Antibody (AC-15) [DyLight 488] NB600-501G

Unit Size: 0.1 ml

Store at 4C in the dark.

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**NB600-501G**

beta-Actin Antibody (AC-15) [DyLight 488]

<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	This product is unpurified. The exact concentration of antibody is not quantifiable.
<b>Storage</b>	Store at 4C in the dark.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	AC-15
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG1
<b>Conjugate</b>	DyLight 488
<b>Purity</b>	Ascites
<b>Buffer</b>	50mM Sodium Borate
<b>Target Molecular Weight</b>	42 kDa
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Gene ID</b>	60
<b>Gene Symbol</b>	ACTB
<b>Species</b>	Human, Mouse, Rat, Porcine, Bovine, Canine, Chicken, Feline, Fish, Guinea Pig, Hamster, Leech, Mammal, Primate, Rabbit, Sheep, Squirrel, Zebrafish, Drosophila (Negative)
<b>Reactivity Notes</b>	The antibody cross reacts with beta-actin expressing cells in carp, leech tissues ( <i>Hirudo medicinalis</i> ), ground squirrel. Does not cross react with adult cardiac, skeletal muscle, drosophila or amoeba beta actin. Hamster reactivity reported in scientific literature (PMID: 24478435). Mammal reactivity reported in scientific literature (PMID: 25130694). Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Additional Mouse on Mouse blocking steps may be required for IHC and ICC experiments. Please contact Technical Support for more information.
<b>Specificity/Sensitivity</b>	In staining of chicken gizzard ultrathin tissue cryosections, the antibody labels the dense bodies and longitudinal channels linking consecutive dense bodies that are also occupied by desmin and the membrane-associated dense plaque. It does not stain adult cardiac and skeletal muscles except for traces due to contaminations of the sample with non-muscle cells, or if embryonic tissue is being used. The epitope recognized by the antibody is resistant to formalin-fixing and paraffin-embedding.
<b>Immunogen</b>	This beta-Actin Antibody (AC-15) was made to a slightly modified Beta-cytoplasmic actin N-terminal peptide, Ac-Asp-Asp-Asp-Ile-Ala-Ala-Leu-Val-Ile-Asp-Asn-Gly-Ser-Gly-Lys, conjugated to KLH.
<b>Notes</b>	Dylight (R) is a trademark of Thermo Fisher Scientific Inc. and its subsidiaries.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin



<b>Recommended Dilutions</b>	Western Blot, Flow Cytometry, ELISA, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen
<b>Application Notes</b>	This antibody is useful for Western blot, ELISA, immunohistochemistry and Immunocytochemistry. Molecular weight of beta actin is 42kD. The antibody can be used for staining of acetone-fixed frozen sections, EM preparations, and microinjection experiments. This antibody is not suitable for formalin fixation and paraffin embedding. B5, methacarn, ethanol or Bouin's solutions may also be used as fixatives. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.





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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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