

BODIPY FL Polyclonal Antibody

Product Details	
Size	500 µL
Species Reactivity	Chemical
Published Species	Chemical
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Raised against the BODIPY®FL fluorophore and exhibits no appreciable cross-reaction with non-BODIPY®dyes, although it will cross react to varying extents with other BODIPY®dyes.
Form	Liquid
Concentration	3 mg/mL
Purification	IgG fraction
Storage buffer	PBS, pH 7.2
Contains	5mM sodium azide
Storage conditions	4° C
RRID	AB_2536193

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-dependent	2 Publications
Immunohistochemistry (IHC)	Assay-dependent	-
Immunocytochemistry (ICC/IF)	Assay-dependent	2 Publications
Neutralization (Neu)	-	1 Publication
Miscellaneous PubMed (Misc)	-	4 Publications

Product Specific Information

We offer a variety of anti-fluorescent dye antibodies that recognize specific fluorophores and, in most cases, quench their fluorescence. These anti-dye antibodies, including our antibody to the BODIPY™ FL fluorophore, can serve as cell-impermeant probes for determining whether fluorescent dye-conjugated ligands, proteins, bacteria, or other biomolecules have been internalized by endocytic or pinocytic processes.

The anti-BODIPY™ FL antibody (A-5770) was raised against the BODIPY FL fluorophore and exhibits no appreciable cross-reaction with non-BODIPY dyes, although it will cross-react to varying extents with other BODIPY dyes. In solution assays, we have found that this antibody effectively quenches the fluorescence of the BODIPY FL fluorophore, but quenches the BODIPY TR dye to a lesser extent and does not significantly quench the BODIPY™ TMR dye.

Invitrogen uses a sensitive quenching assay to ensure that this antibody is provided at a consistently high titer value. As supplied, 20 µL of the antibody solution is certified to produce 50% of the maximal fluorescence quenching of 1 mL of a 50 nM solution of BODIPY FL dye, assayed in 100 mM sodium phosphate, pH 8.0. Maximal quenching for BODIPY FL dye is ~80% of the fluorescence of the free dye. Due to steric hindrance, maximal fluorescence quenching of the BODIPY FL fluorophore covalently

bound to protein may be significantly less. It is a good practice to centrifuge protein conjugate solutions briefly in a microcentrifuge before use; only the supernatant should then be added to the experiment. This step will eliminate any protein aggregates that may have formed during storage, thereby reducing nonspecific background staining.

9 References

Western Blot (2)

Antimicrobial agents and chemotherapy

Activities of ceftobiprole and other cephalosporins against extracellular and intracellular (THP-1 macrophages and keratinocytes) forms of methicillin-susceptible and methicillin-resistant *Staphylococcus aureus*.

"A-5770 was used in western blot to measure the intracellular activity of ceftobiprole against a panel of hospital-acquired and community-acquired methicillin-resistant *S. aureus* strains"

Authors: Lemaire S, Glupczynski Y, Duval V, Joris B, Tulkens PM, Van Bambeke F

Species
Chemical

Dilution
1:500

Year
2009

The Journal of biological chemistry

Restoration of susceptibility of methicillin-resistant *Staphylococcus aureus* to beta-lactam antibiotics by acidic pH: role of penicillin-binding protein PBP 2a.

"A-5770 was used in western blot to study the role of penicillin-binding protein PBP 2a and restoration of susceptibility of methicillin-resistant *Staphylococcus aureus* to beta-lactam antibiotics by acidic pH"

Authors: Lemaire S, Fuda C, Van Bambeke F, Tulkens PM, Mobashery S

Species
Chemical

Dilution
Not Cited

Year
2008

Immunocytochemistry (2)

Journal of extracellular vesicles

Extracellular vesicles from monocyte/platelet aggregates modulate human atherosclerotic plaque reactivity.

"A-5770 was used in Immunocytochemistry to provide evidence that EVs released by mixed aggregates of monocytes and platelets in response to TNF- display pro-inflammatory actions on endothelial cells and atherosclerotic plaques."

Authors: Oggero S, de Gaetano M, Marcone S, Fitzsimons S, Pinto AL, Ikramova D, Barry M, Burke D, Montero-Melendez T, Cooper D, Burgoyne T, Belton O, Norling LV, Brennan EP, Godson C, Perretti M

Species
Chemical

Dilution
Not Cited

Year
2021

eLife

Tetherin is an exosomal tether.

"A-5770 was used in immunocytochemistry test if tetherin attaches to exosomes"

Authors: Edgar JR, Manna PT, Nishimura S, Banting G, Robinson MS

Species
Chemical

Dilution
Not Cited

Year
2016

More applications with references on thermofisher.com

Neu (1) Misc (4)

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