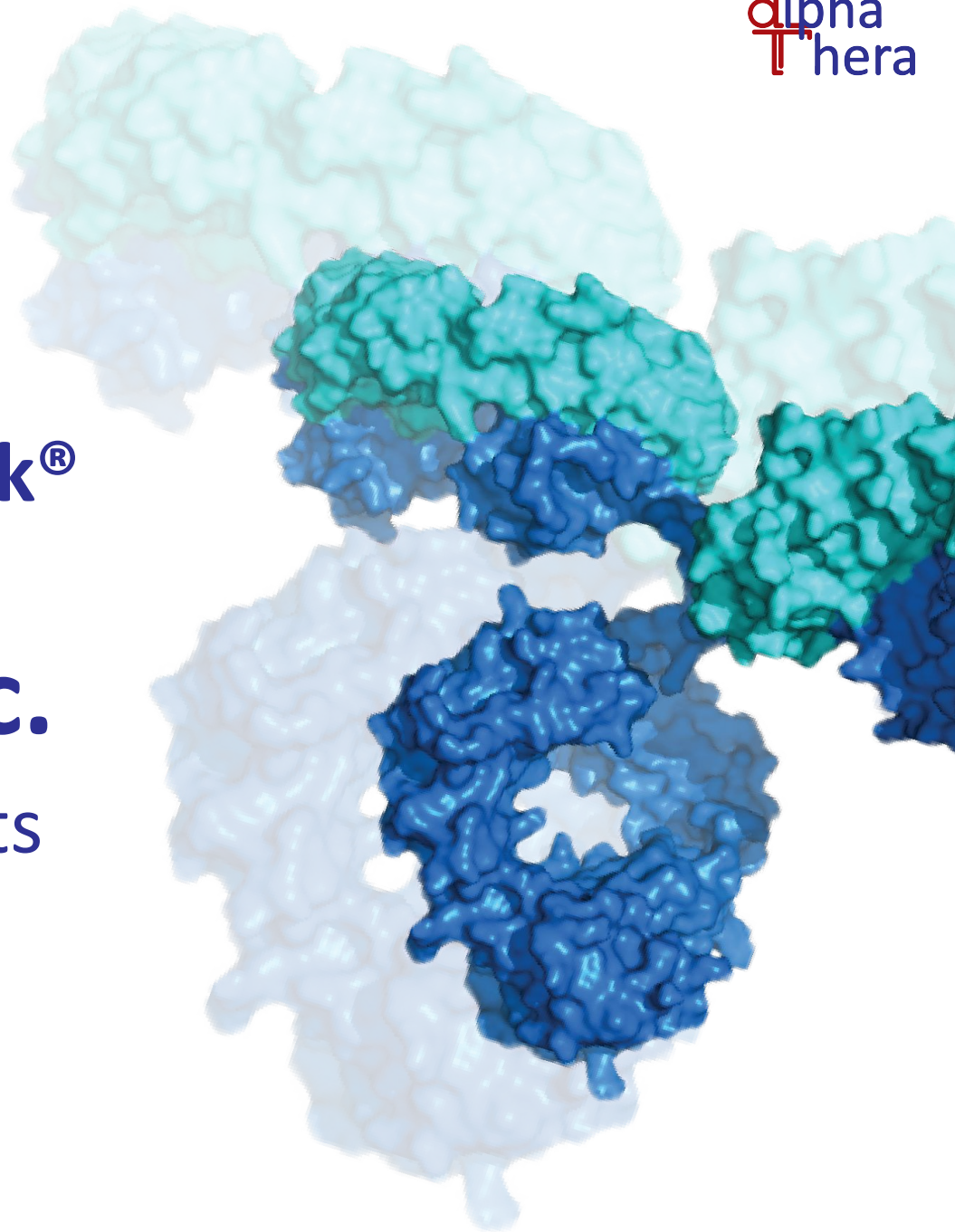
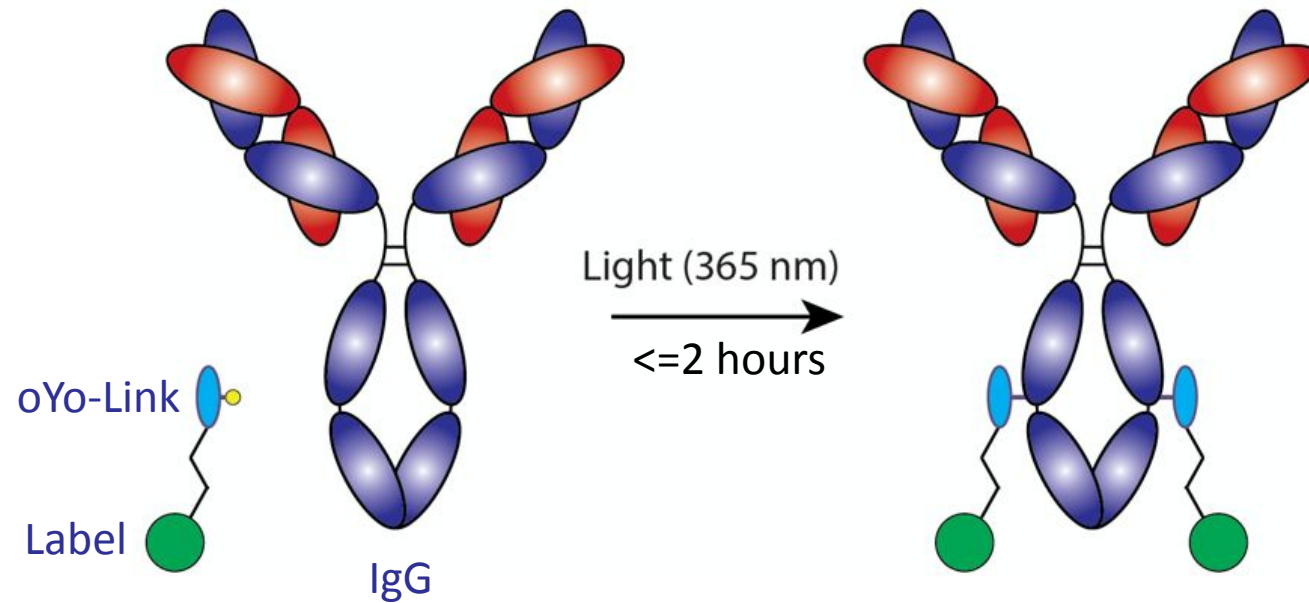


Simple. Fast. Site-Specific.
Superior Antibody Labeling Reagents



How it works

oYo-Link[®] Conjugation Technology



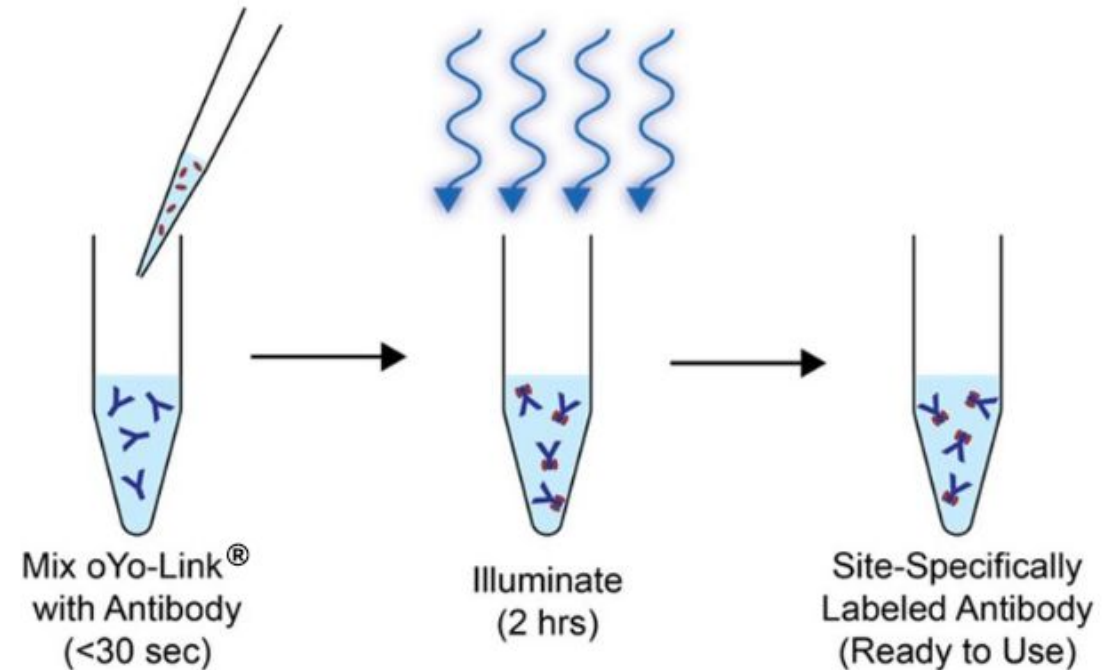
oYo-Link binds to the heavy chain of IgG with high affinity.

Upon illumination, oYo-Link forms a highly stable covalent bond with the antibody.

How it works

oYo-Link[®] Conjugation Technology

- ✔ Antibody labeling requires just two steps:
 1. Mix oYo-Link with your antibody.
 2. Illuminate with non-damaging 365 nm UV light for ≤ 2 hours.
- ✔ Less than 30 seconds of hands-on time
- ✔ Any unused oYo-Link reagent can be saved for later use.



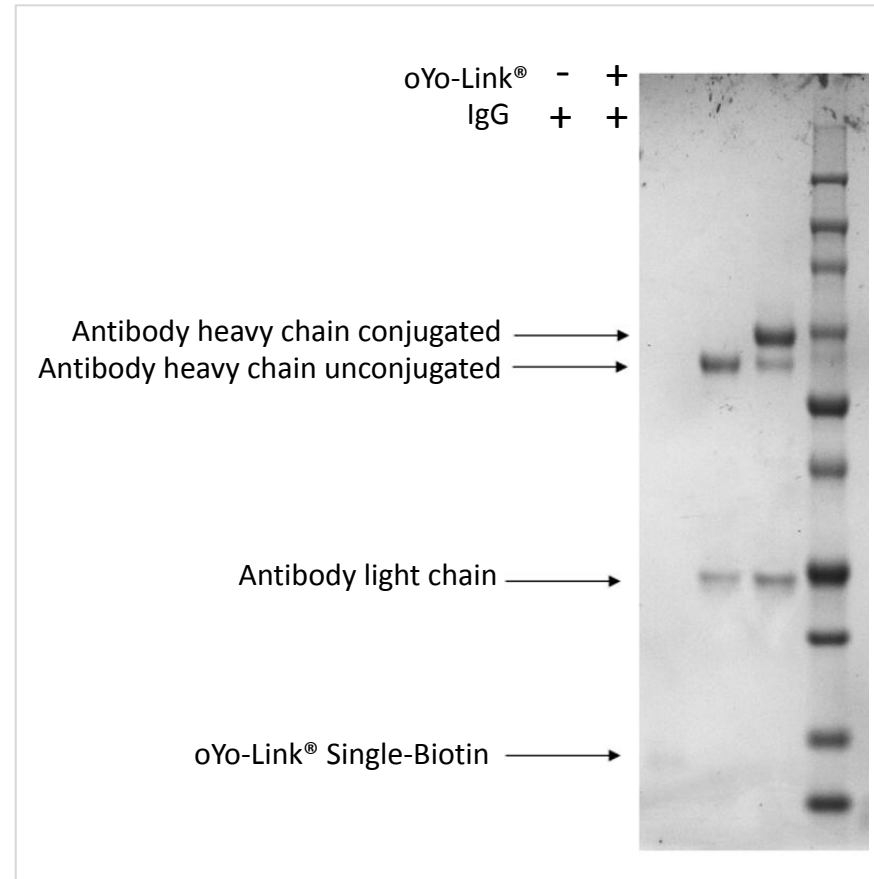
Antibody compatibility

oYo-Link[®] Conjugation Technology

Antibody labeling is highly efficient:

- ✔ Highly homogeneous product
- ✔ Up to 2 labels per IgG
- ✔ One label per heavy chain

oYo-Link products exhibit high cross-linking efficiency with nearly all IgG antibodies.



Species	Ig Subclass	Crosslinking Efficiency
Human	IgG1	+++
	IgG2	+++
	IgG3	+++
	IgG4	+++
	IgA	-
Mouse	IgM	-
	IgG1 (<i>Separate Product</i>)	++*
	IgG2a	+++
	IgG2b	++
	IgG2c	+++
Rat	IgG3	+++
	IgG1	+
	IgG2a	-
	IgG2b	-
	IgG2b kappa	+
Goat	IgG2c	+++
	IgG	++
	Rabbit	++/+++**
	Sheep	++
	Cow/Bovine	++
Dog	Pig/Porcine	+++
	Guinea Pig	+++
	Armenian Hamster	+
	Chicken	-
	Donkey	+++
Horse/Equine	Horse/Equine	+++
	Monkey	+++

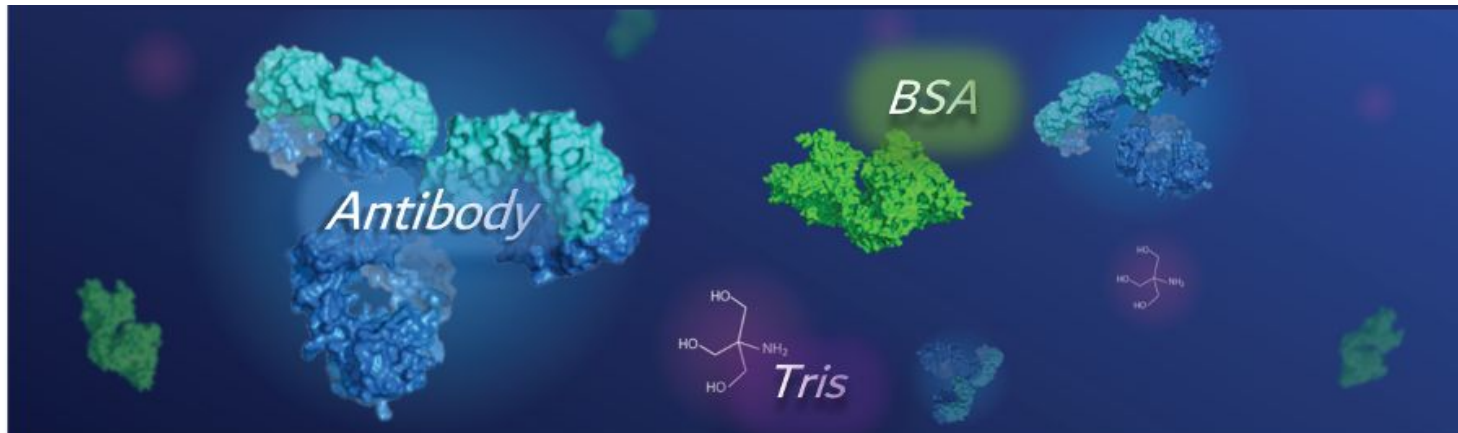
Buffer compatibility

oYo-Link[®] Conjugation Technology

TRIS?

Albumin?

..... No Problem!



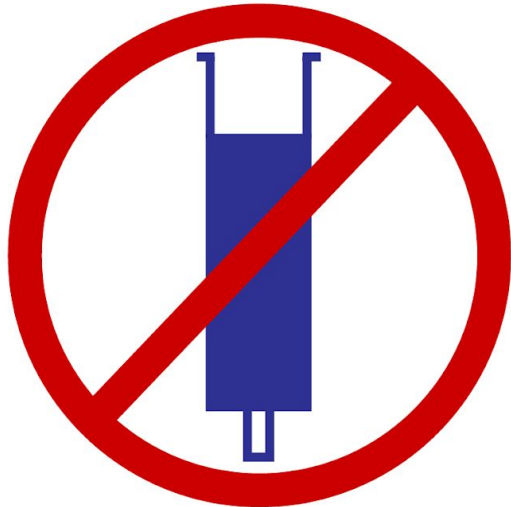
Due to the high affinity and specificity of oYo-Link for antibodies, conjugations can be performed in **ALL COMMON BUFFERS**.

Buffer Category	Specific Chemical	Compatibility
pH		4-10
Buffer	Tris buffer	✓
	PBS buffer	✓
	HEPES Buffer (<20 mM)	✓
	Borate Buffer	✓
	MOPS Buffer (<20 mM)	✓
	MES Buffer (50-500 mM)	Reduces photo-crosslinking efficiency by 50%
Salts	Sodium citrate	✓
	Sodium Azide (<1%)	✓
Chelating reagent	EDTA (<2.5mM)	✓
Buffer additives	Trehalose	✓
	Sugars	✓
	L-Arginine	✓
	Proclin	✓
	Thimerosal	✓
	Merthiolate	✓
	Glycine	✓
	Glycerol (= <50%)	✓
	Gelatin (0.5%)	✓
	Storage protein	BSA
Serum	Human	✓
	Bovine	✓
Ascitic Fluid		✓
Cell culture medium	DMEM, RPMI-1640	✓
Hybridoma supernatant		✓

Buffer compatibility

oYo-Link[®] Conjugation Technology

Save sample and time!



NO DESALTING



NO CONCENTRATING



NO CENTRIFUGING

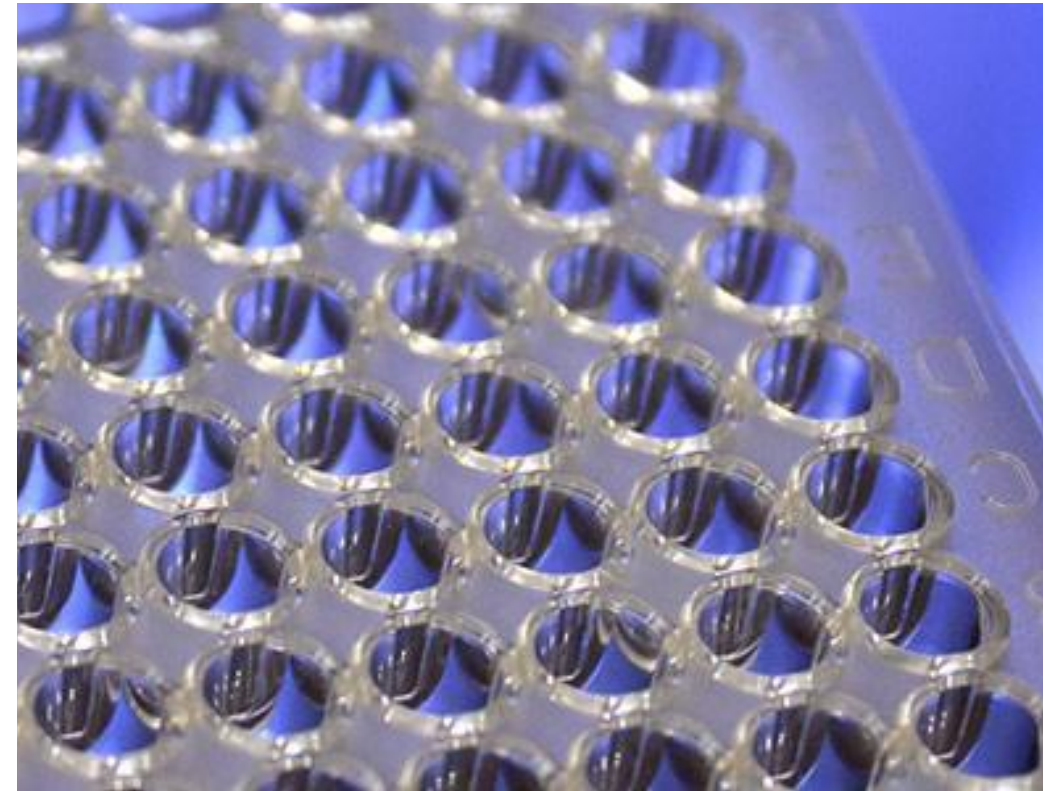
Due to broad buffer compatibility, there is never a need to desalt, filter, or concentrate your antibody prior to labeling with oYo-Link.

Antibody quantities

oYo-Link[®] Conjugation Technology

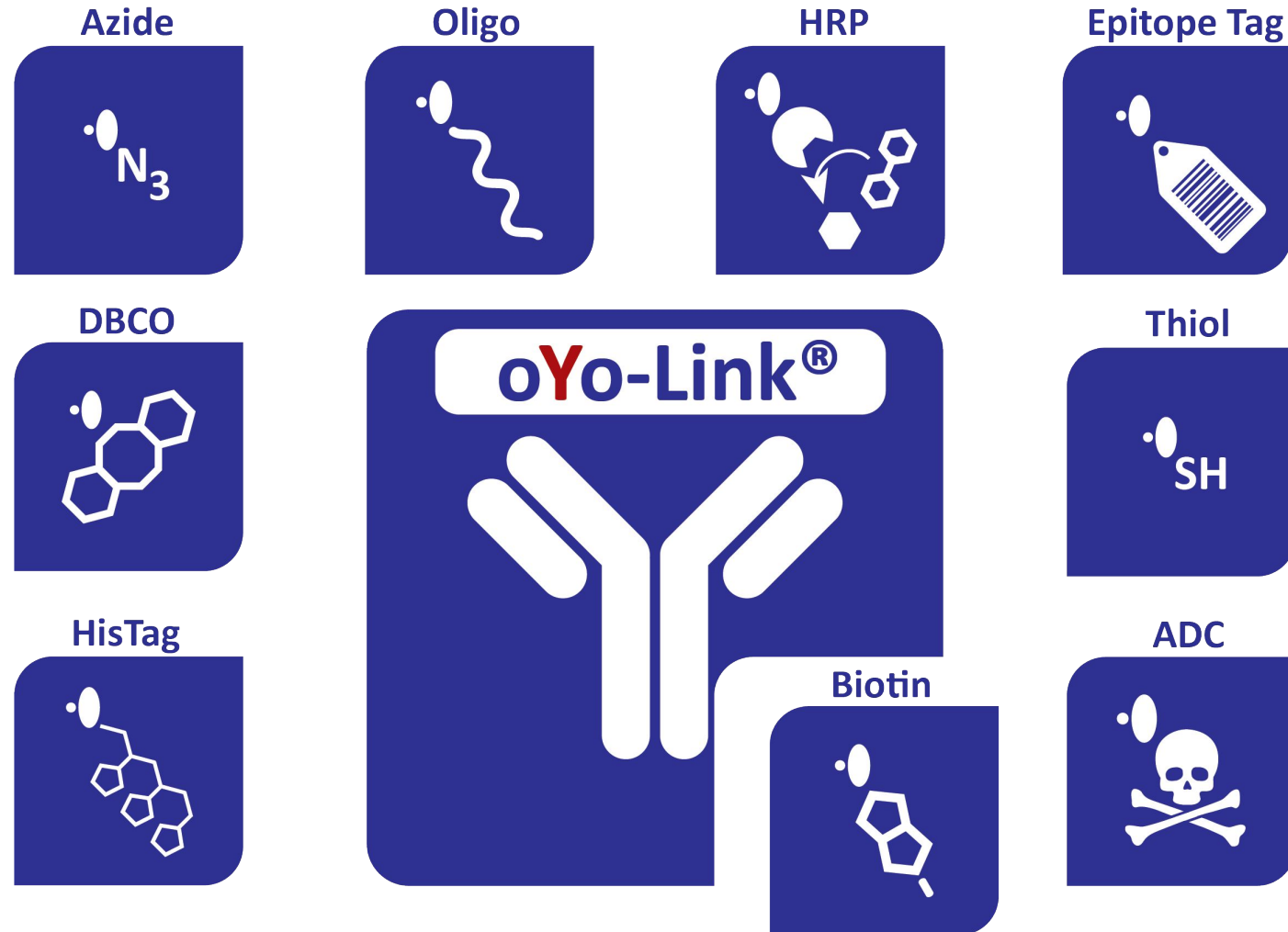
Save sample and time!

- ✔ Label as little as 1 μg antibody at a time
- ✔ Label diluted antibodies, as low as 50 $\mu\text{g}/\text{mL}$, with no loss in efficiency.



Product offerings

oYo-Link[®] Conjugation Technology

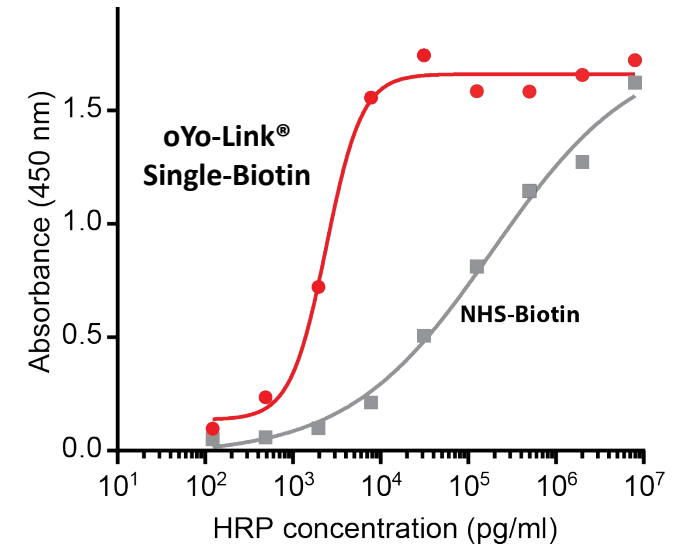
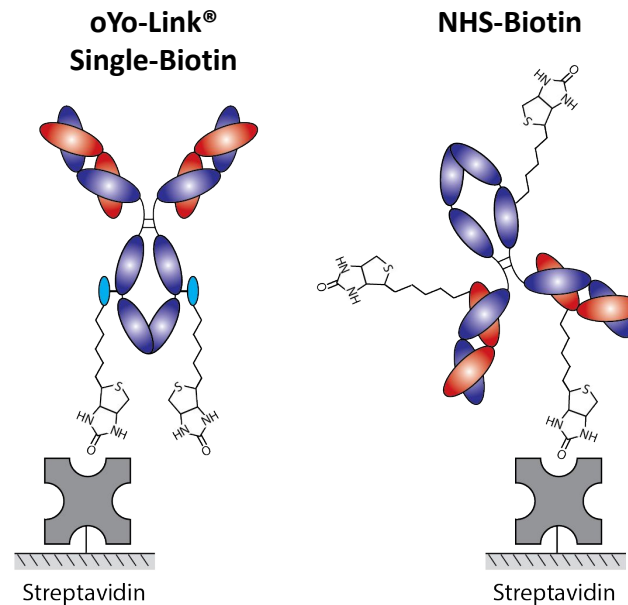


Surface immobilization

oYo-Link[®] Conjugation Technology

Site-specific immobilization of antibodies on surfaces can lead to significant improvements in immunoassay sensitivity.

- ✔ oYo-Link has no effect on antigen binding.
- ✔ No need to optimize conjugation protocol.
- ✔ For most assays, there is no need to purify after antibody labeling. (Generally, no observable effect on assay performance).

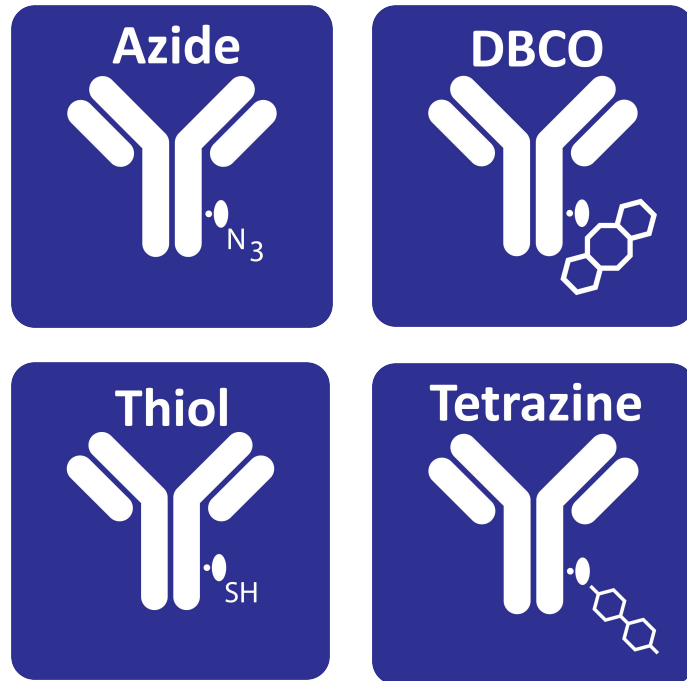


Product Offerings: Single-Biotin; Thiol; His12 Tag

Click chemistry

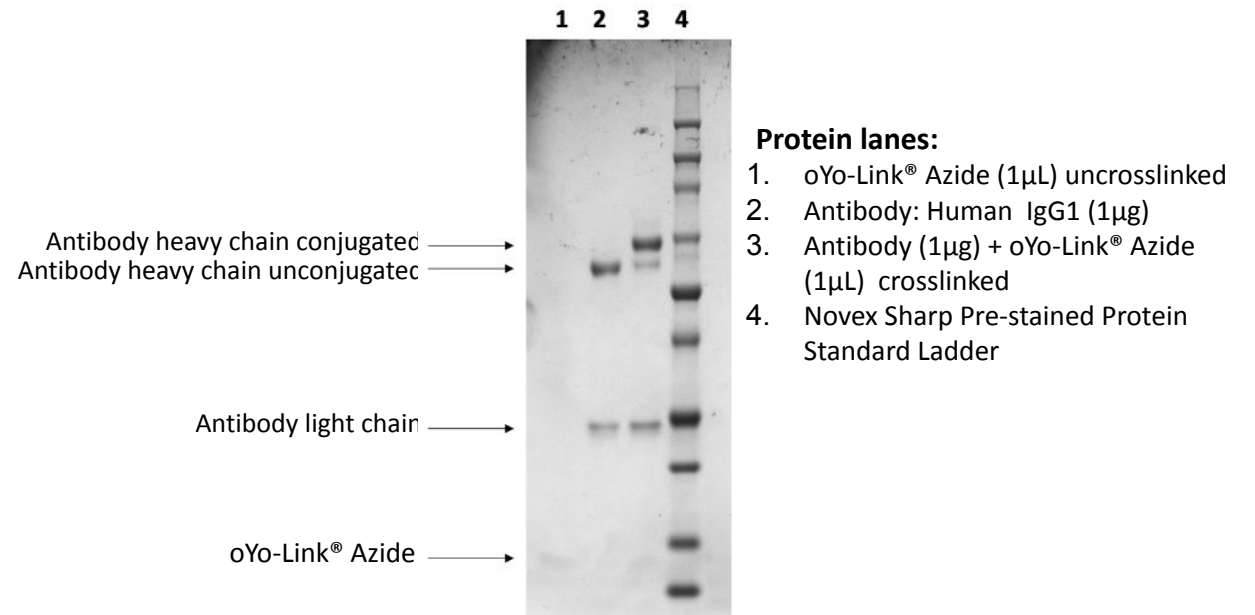
oYo-Link[®] Conjugation Technology

oYo-Link Click Chemistry products provide customers with the flexibility to easily and site-specifically attach their molecule of choice to their antibody.



Product Offerings: Azide; DBCO; Thiol; Tetrazine

oYo-Link[®] Azide antibody crosslinking data



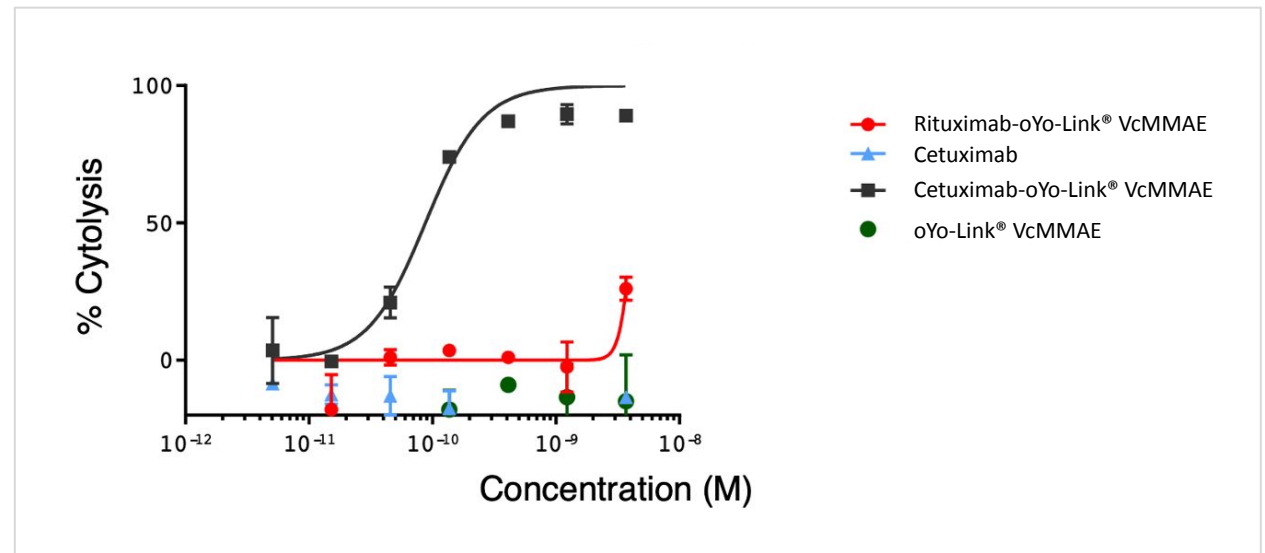
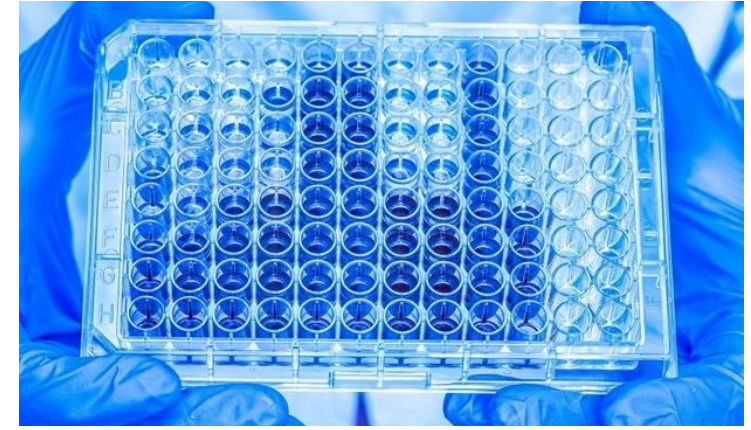
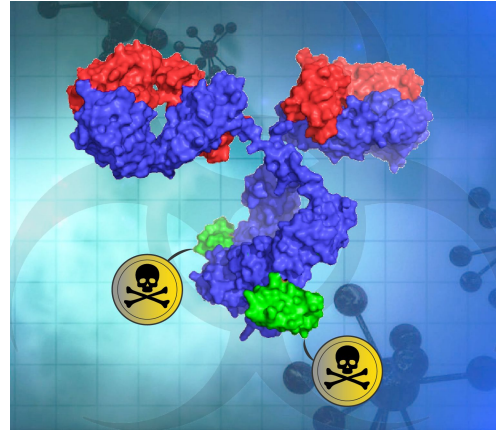
Drug screening

oYo-Link[®] Conjugation Technology

oYo-Link is compatible with high-throughput drug screening assays:

- ✓ 100's to 1000's of antibodies can be labeled in parallel
- ✓ Homogeneous antibody labeling in microplates (DAR ~ 2)
- ✓ Low antibody-to-antibody variability

Product Offerings: VcMMAE; DM1; VcMMAF; DM4



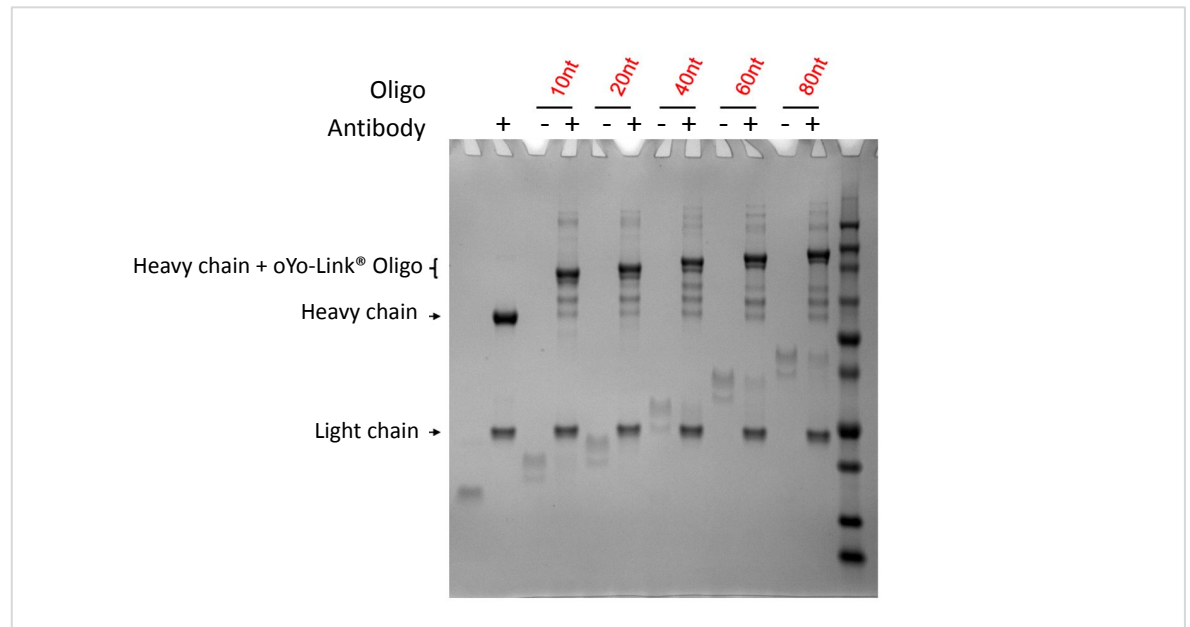
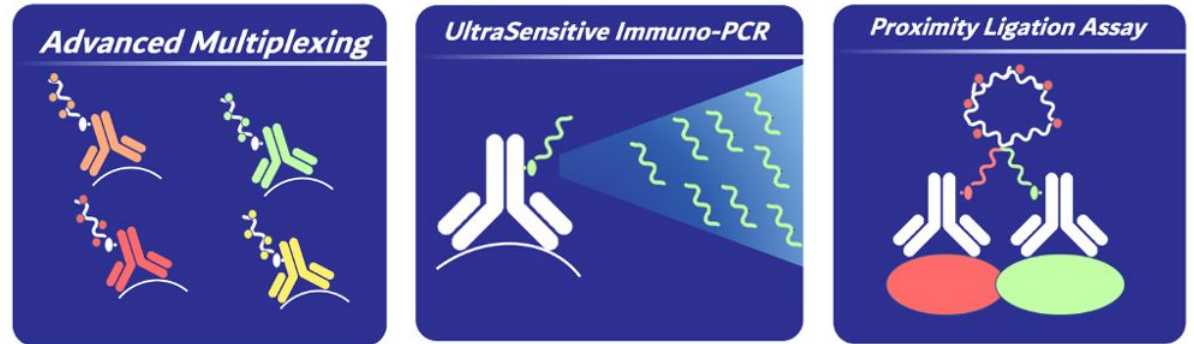
Oligonucleotide based assays

oYo-Link[®] Conjugation Technology

oYo-Link enables the facile, site-specific labeling of antibodies with oligonucleotides

- ✓ **Oligonucleotides of any length can be attached with no loss in efficiency!**
- ✓ **Simple:** Just mix & illuminate oYo-Link with your antibody
- ✓ **Fast:** <30 seconds hands-on time
- ✓ **Site-Specific:** Oligonucleotides are conjugated to the heavy chain, thus have minimal impact on antigen binding

Product Offerings: oYo-Link[®] Custom Oligo



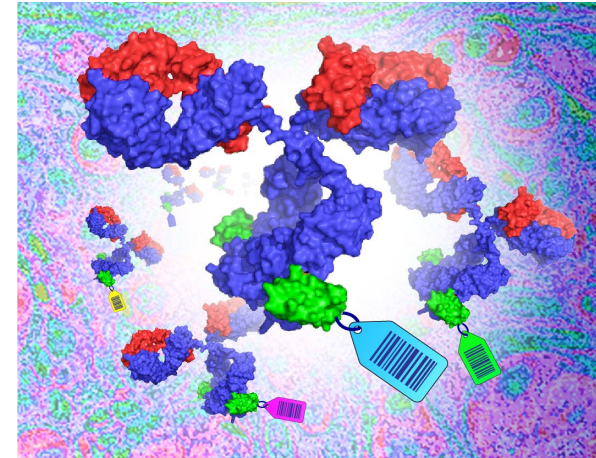
Multiplexing with oYo-Link[®] Epitope Tag

oYo-Link[®] Conjugation Technology

oYo-Link[®] Epitope Tags allow 10 different antibodies to be uniquely identified simultaneously.

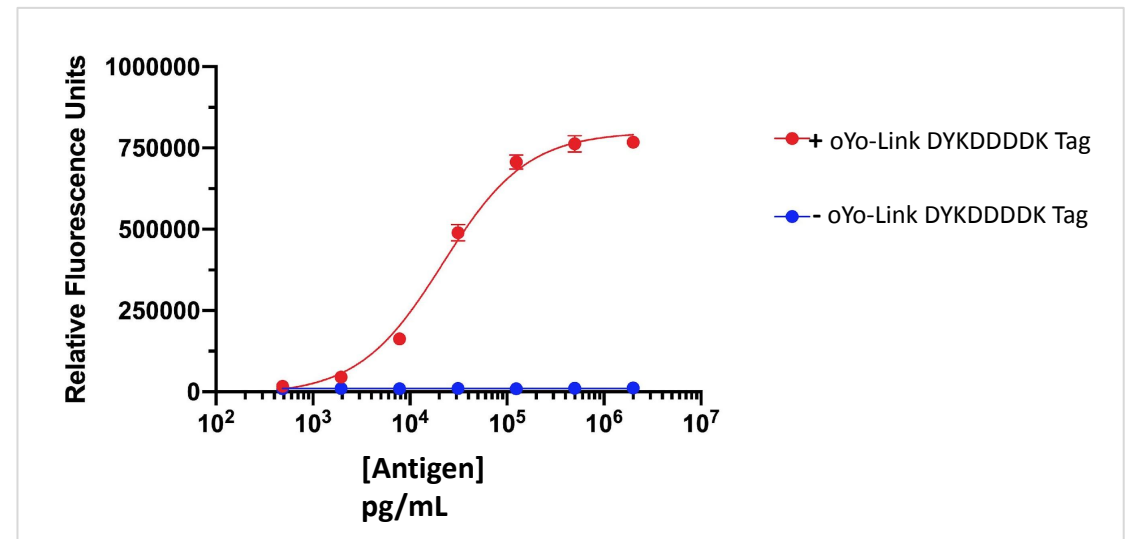
- ✔ Choose from 10 different epitope tags
- ✔ Never worry about antibody species cross-reactivity again
- ✔ Use the secondary antibodies and reporter system of your choice

Product Offerings: His12, DYKDDDDK, V5, S, VSVg, NWS, S1, AU1, AU5, HSV1



Available oYo-Link[®] Epitope Tags

His12	V5	AU1
DYKDDDDK	S	AU5
VSV-G	S1	HSV1
	NWS	



Thank You!

More information available at:

www.alphathera.com

Technical questions?

support@alphathera.com

For sales and pricing, please contact us at:

sales@alphathera.com