

# universal detection of any tagged protein

## Thermo Scientific Pierce Epitope-tagged and Loading Control Antibodies

**Look no further.** The Thermo Scientific™ Pierce™ Antibody portfolio contains the epitope and fusion tag antibodies you want for the easy detection and purification of tagged proteins without the need for protein-specific antibodies. All antibodies are validated for specific applications, making your choice easy.

Antibodies are in stock and ship within 24 hours of ordering. Search our website at [thermoscientific.com/pierce-abs](http://thermoscientific.com/pierce-abs) for a complete list.



### Recombinant Protein Purification and Detection Primer

Recombinant protein purification from *E. coli*, yeast, insect or mammalian cell cultures requires affinity tags. These tags allow researchers to selectively extract a target protein from the endogenous proteins and can serve as a universal detection tag using antibodies to these sequences. Some of the most commonly used tags are:

- Glutathione S-Transferase (GST)** – The high affinity between GST and reduced glutathione (GSH) can selectively extract recombinant proteins from lysates using reduced GSH immobilized onto solid chromatography resins. The amino acid sequence for GST is cloned into either the C- or N-terminus of the target gene. For detection, antibodies that specifically target GST can be used for any protein with the GST tag.
- Polyhistidine (His)** – The polyhistidine tag is a sequence of five to nine histidine amino acids cloned into either the C- or N-terminus of the target gene. His-tagged proteins are purified using immobilized metal affinity chromatography (IMAC). Nickel or cobalt immobilized onto a solid chromatography resin can also be used to selectively bind His-tagged proteins from a cell lysate. Antibodies developed against the H tag can be used to detect any protein carrying the tag.
- HA and c-Myc epitopes** – Genes cloned with either the Hemagglutinin (HA) or c-Myc epitope are commonly expressed in insect or mammalian cell cultures. These nine amino acid chains are selectively purified by immunoprecipitation using anti-HA or anti-Myc antibodies.

### Some popular Thermo Scientific Pierce Fusion and Epitope Tag Antibodies

Product #	Monoclonal Antibody	Target	Application	Pkg. Size
MA1-91878	Anti-DYKDDDDK Tag (FLAG™ Epitope)	DYKDD	WB, IF, IP	100µg
MA1-21315	Anti-His Epitope Tag (6xHis or HHHHHH)	His	WB, IF, IP	100µg
PI26183	Anti-HA Epitope Tag	HA	WB, IP	100µg
MA1-21316	Anti-Myc Epitope Tag	Myc	WB, IF, IP	100µg
PIMA5-15253	Anti-V5 Epitope Tag (GKPIPPLLGLDST)	V5	WB, IF, IP	100µg
PIMA4-004	Anti-GST Tag (Glutathione-S-Transferase)	GST	WB, IP	100µg
PIMA5-15256	Anti-GFP Tag (Green Fluorescent Protein)	GFP	WB, IF, IP	100µg
PIMA5-15257	Anti-RFP Tag (Red Fluorescent Protein)	RFP	WB, IF, IP	100µg
PA1-989*	Anti-MBP Tag (Maltose Binding Protein)	MBP	WB	100µg
PICAB1001*	Anti-TAP Tag (Tandem Affinity Purification)	TEV site	WB, IP	50µg

\*Polyclonal Antibody Only

### Also check out our Loading Control Antibodies

Product #	Monoclonal Antibody	Target	Application	Pkg. Size
PIMA5-15738	Anti-GADPH Loading Control	GAPDH	WB, IF	100µg
PIMA5-15739	Anti-β Actin Loading Control	β-Actin	WB, IF	100µg
MA1-850	Anti-γ Tubulin Loading Control	γ-Tubulin	IF, IP, WB	100µg
MA3-1000	Anti-Lamin A/C Loading Control	Lamin A/C	IF, IHC, WB	200µg
PA1-027A*	Anti-Cyclophilin B Loading Control	Cyclophilin B	WB	100µg

\*Polyclonal Antibody Only





## Thermo Scientific Pierce Secondary Antibodies

A wide range of Thermo Scientific™ Pierce Secondary Antibodies is available for your detection needs. Choose from alkaline phosphatase, biotin and popular Thermo Scientific™ DyLight™ fluorophores as tags.

Product #	Description	Pkg. Size
PI35502	Goat Anti-Mouse IgG (H+L), DyLight 488 Conjugated (1mg/mL)	1mL
PI35511	Goat Anti-Mouse IgG (H+L), Highly Cross-Adsorbed, DyLight 594 Conjugated (1mg/mL)	0.5mL
PI31430	Goat Anti-Mouse IgG (H+L), HRP Conjugated	2mL
PI31320	Goat Anti-Mouse IgG (H+L), Alkaline Phosphatase Conjugated	1mL
PI31800	Goat Anti-Mouse IgG (H+L), Biotin Conjugated	2mL
PI35552	Goat Anti-Rabbit IgG (H+L), DyLight 488 Conjugated (1mg/mL)	1mL
PI35561	Goat Anti-Rabbit IgG (H+L), Highly Cross-Adsorbed, DyLight 594 Conjugated (1mg/mL)	0.5mL
PI31460	Goat Anti-Rabbit IgG (H+L), HRP Conjugated	2mL
PI31340	Goat Anti-Rabbit IgG (H+L), Alkaline Phosphatase Conjugated	1mL

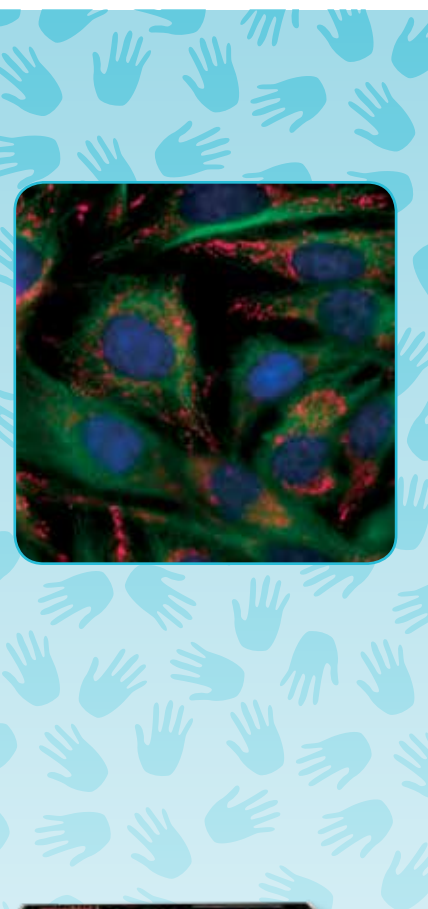
Many products and package sizes are available, including conjugates to other secondary antibody targets and a full listing of DyLight Dyes, HRP, biotin and other conjugates. Please visit [thermoscientific.com/pierce-abs](http://thermoscientific.com/pierce-abs) for a complete listing.

## Thermo Scientific Products for Use with Epitope-tagged Proteins

Besides an array of antibodies to the most common epitope tags, we also offer immunoprecipitation kits, pull-down kits and protein purification resins to these for precise targeting and high protein yield and purity.

Product #	Description	Pkg. Size
PI26180	<b>Pierce HA-Tag IP/Co-IP Kit</b> <i>Sufficient for 25 IP/Co-IP reactions, each using 10µL of resin</i>	25-rxn kit
PI23620	<b>Pierce c-Myc-Tag IP/Co-IP Kit</b> <i>Sufficient for 25 IP reactions, each using 5µL resin (5µg anti-c-Myc antibody)</i>	25-rxn kit
PI21516	<b>Pierce GST Protein Interaction Pull-Down Kit</b> <i>Sufficient for at least 25 pull-down reactions, each using 25µL of resin</i>	25-rxn kit
PI21277	<b>Pierce His Protein Interaction Pull-Down Kit</b> <i>Sufficient for at least 25 pull-down reactions, each using 25µL of resin</i>	25-rxn kit
PI16100	<b>Pierce Glutathione Agarose</b> <i>Sufficient for binding &gt;10mg of GST-tagged protein per mL of resin</i>	10mL
PI88221	<b>HisPur™ Ni-NTA Resin</b> <i>Sufficient for binding up to 60mg of His-tagged protein per mL of resin</i>	10mL
PI89964	<b>HisPur Cobalt Resin</b> <i>Sufficient for binding &gt; 10mg of His-tagged protein per mL of resin</i>	10mL

Many other products and package sizes are available. Please visit [thermoscientific.com/pierce](http://thermoscientific.com/pierce) and search using your tag of interest or preferred purification resin.



[thermoscientific.com/pierce-abs](http://thermoscientific.com/pierce-abs)

© 2013 Thermo Fisher Scientific Inc. All rights reserved. These products are supplied for laboratory or manufacturing applications only. FLAG is a trademark of Sigma-Aldrich Co. All other trademarks are the property of Thermo Fisher Scientific Inc. and its subsidiaries. Specifications, terms and pricing are subject to change. Not all products are available in all countries. Please consult your local sales representative for details.



**In the United States:**  
For customer service, call 1-800-766-7000.  
To fax an order, use 1-800-926-1166.  
To order online: [www.fishersci.com](http://www.fishersci.com)

**In Canada:**  
For customer service, call 1-800-234-7437.  
To fax an order, use 1-800-463-2996.  
To order online: [www.fishersci.ca](http://www.fishersci.ca)