



ANTIBODIES
Are Our Business

Host Cell Protein Products

ICL ELISA Kits

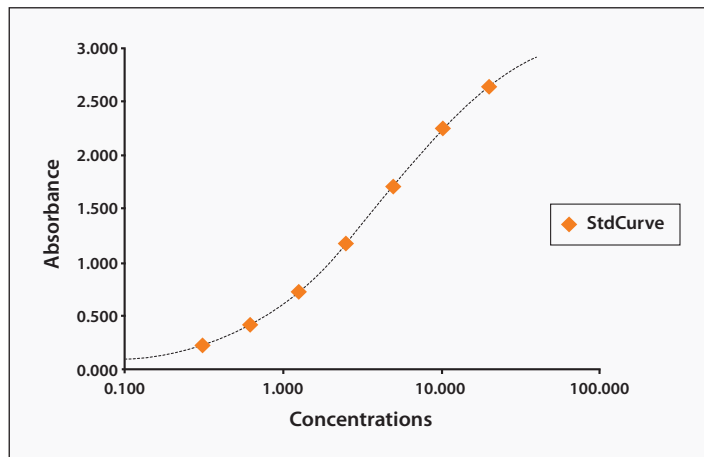
ICL's ELISA Kits use highly specific and sensitive antibodies developed in our lab to create the first commercialized ELISA methods for detecting specific CHO host cell proteins that may contaminate purified monoclonal antibodies that were cultured in CHO cells.

CHO Proteins

Reducing or minimizing host cell protein (HCP) impurities is crucial in the development and manufacture of recombinant biotherapeutics. This is an emerging therapeutic strategy for a wide range of illnesses.

Many different approved therapeutic glycoproteins are manufactured in Chinese Hamster Ovary (CHO) cells. CHO cells are one of the most used genetically engineered host cell systems for such production.

The contamination of CHO host cell proteins can adversely affect the production of recombinant biotherapeutics and potentially trigger an immune response upon administration. This may compromise patient safety and lead to undesirable clinical outcomes. Conducting a comprehensive risk assessment of host cell protein levels in CHO cell-based protein production is essential.



Host Cell Protein Products

Annexin A5

Annexin A5 is an anticoagulant protein acting as an indirect inhibitor of the thromboplastin-specific complex.

Catalog Number	Description	Species Reactivity or Antibody Host	Format	Product Type	Quantity
AG65-0425-01-Z	Purified Annexin A5 Protein	CHO	Unconjugated	Protein Standard	0.1 mg
E-65NX5	Hamster CHO Annexin A5 ELISA Kit	Hamster	Sandwich ELISA	ELISA Kit	96 well plate
CNX5-65ALY	anti-CHO Annexin A5 Antibody	Chicken	Unconjugated	Primary Antibody	0.5 mg/0.1 mg

Beta 2-Microglobulin

Beta 2-Microglobulin is a component of the major histocompatibility complex involving the presentation of peptide antigens to the immune system.

Catalog Number	Description	Species Reactivity or Antibody Host	Format	Product Type	Quantity
AG65-0041-01-Z	Purified Beta 2-Microglobulin Protein	CHO (Recombinant)	Unconjugated	Protein Standard	0.1 mg
E-65B2	Hamster CHO Beta 2-Microglobulin (B2M) ELISA Kit	Hamster	Sandwich ELISA	ELISA Kit	96 well plate
CB2-65ALY	anti-CHO B2M Antibody	Chicken	Unconjugated	Primary Antibody	0.5 mg/0.1 mg

Clusterin

Clusterin plays key roles in protein homeostasis/proteostasis, and the modulation of pro-survival signaling networks.

Catalog Number	Description	Species Reactivity or Antibody Host	Format	Product Type	Quantity
AG65-0075-01-Z	Purified CHO Clusterin Protein	CHO (Recombinant)	Unconjugated	Protein Standard	0.1 mg
E-65CLS	Hamster CHO Clusterin ELISA Kit	Hamster	Sandwich ELISA	ELISA Kit	96 well plate
CCLS-65ALY	anti-CHO Clusterin Antibody	Chicken	Unconjugated	Primary Antibody	0.5 mg/0.1 mg

Glutathione S-transferase Pi (GSTp)

Glutathione S-transferase Pi (GSTp) is a metabolic enzyme that facilitates metabolite detoxification and antioxidation. GSTp reduces efficacy of chemotherapy drugs and inhibits tumor-cell apoptosis.

Catalog Number	Description	Species Reactivity or Antibody Host	Format	Product Type	Quantity
AG65-0337	Purified CHO GSTp Protein	CHO (Recombinant)	Unconjugated	Protein Standard	1.0 mg/0.1 mg
E-65GSTP	Hamster CHO GSTp ELISA Kit	Hamster	Sandwich ELISA	ELISA Kit	96 well plate
MGSTP-65A-2E6	anti-CHO GSTp Antibody	Mouse	Unconjugated	Primary Antibody	1.0 mg

GTP-binding nuclear protein (RAN)

GTP-binding nuclear protein (RAN) maintains nuclear structure, protein import, mRNA processing and export, and cell cycle regulation.

Catalog Number	Target	Species Reactivity or Antibody Host	Format	Product Type	Quantity
AG65-0127-01-Z	Purified CHO RAN Protein	CHO (Recombinant)	Unconjugated	Protein Standard	0.1 mg
E-65RAN	Hamster CHO RAN ELISA Kit	Hamster	Sandwich ELISA	ELISA Kit	96 well plate
GRAN-65ALY	anti-CHO RAN Protein	Goat	Unconjugated	Primary Antibody	0.5 mg/0.1 mg

Legumain

Legumain is a cysteine protease which can cause hydrolysis of proteins and small molecule substrates at -Asn-I-Xaa- bonds.

Catalog Number	Target	Species Reactivity or Antibody Host	Format	Product Type	Quantity
AG65-0423-01-Z	Purified CHO Legumain Protein	CHO (Recombinant)	Unconjugated	Protein Standard	0.1 mg
E-65LGM	Hamster CHO Legumain ELISA Kit	Hamster	Sandwich ELISA	ELISA Kit	96 well plate
CLGM-65ALY	anti-CHO Legumain Antibody	Chicken	Unconjugated	Primary Antibody	0.5 mg/0.1 mg

Lysosomal protective protein (CTSA)

Lysosomal protective protein (CTSA) is essential for both the activity and stability of beta-galactosidase and neuraminidase.

Catalog Number	Description	Species Reactivity or Antibody Host	Format	Product Type	Quantity
AG65-0129-01-Z	Purified CHO CTSA Protein	CHO (Recombinant)	Unconjugated	Protein Standard	0.1 mg
E-65CTA	Hamster CHO CTSA ELISA Kit	Hamster	Sandwich ELISA	ELISA Kit	96 well plate
GCTA-65ALY	anti-CHO CTSA Protein	Goat	Unconjugated	Primary Antibody	0.5 mg/0.1 mg

Lysosomal Phospholipase A2 (LPLA2)

Very low levels of Lysosomal Phospholipase A2 (LPLA2) will degrade polysorbate which impacts the stability of Polysorbate 20 and Polysorbate 80.

Catalog Number	Description	Species Reactivity or Antibody Host	Format	Product Type	Quantity
AG65-0128-01-Z	Purified CHO LPLA2 Protein	CHO (Recombinant)	Unconjugated	Protein Standard	0.1 mg
E-65LPLA	Hamster CHO LPLA2 ELISA Kit	Hamster	Sandwich ELISA	ELISA Kit	96 well plate
GLPLA-65ALY	anti-CHO LPLA2 Protein	Goat	Unconjugated	Primary Antibody	0.5 mg/0.1 mg

Matrix metalloproteinase-19 (MMP-19)

Matrix metalloproteinase-19 (MMP-19) degrades extracellular matrix proteins including aggrecan and cartilage oligomeric matrix.

Catalog Number	Description	Species Reactivity or Antibody Host	Format	Product Type	Quantity
AG65-0424-01-Z	Purified CHO MMP-19 Protein	CHO (Recombinant)	Unconjugated	Protein Standard	0.1 mg
E-65MMP19	Hamster CHO Matrix metalloproteinase-19 (MMP-19) ELISA Kit	Hamster	Sandwich ELISA	ELISA Kit	96 well plate
CMP19-65ALY	anti-CHO MMP-19 Antibody	Chicken	Unconjugated	Primary Antibody	0.5 mg/0.1 mg

Nidogen-1

Nidogen-1 is a sulfated glycoprotein, widely distributed in basement membranes and tightly associated with laminin, collagen IV, and fibronectin involving cell extracellular matrix interactions.

Catalog Number	Description	Species Reactivity or Antibody Host	Format	Product Type	Quantity
AG65-0426-01-Z	Purified CHO Nidogen-1 Protein	CHO (Recombinant)	Unconjugated	Protein Standard	0.1 mg
E-65NDN	Hamster CHO Nidogen-1 ELISA Kit	Hamster	Sandwich ELISA	ELISA Kit	96 well plate
CNDN-65ALY	anti-CHO Nidogen-1 Antibody	Chicken	Unconjugated	Primary Antibody	0.5 mg/0.1 mg

Nucleobindin-2 (NUCB2)

Nucleobindin-2 (NUCB2) is a precursor of Nesfatin-1, which regulates food intake and energy homeostasis, and can have a potential role in modulating blood pressure.

Catalog Number	Description	Species Reactivity or Antibody Host	Format	Product Type	Quantity
AG65-0130-01-Z	Purified CHO NUCB2 Protein	CHO (Recombinant)	Unconjugated	Protein Standard	0.1 mg
E-65NUC	Hamster CHO NUCB2 ELISA Kit	Hamster	Sandwich ELISA	ELISA Kit	96 well plate
GNUC-65ALY	anti-CHO NUCB2 Protein	Goat	Unconjugated	Primary Antibody	0.5 mg/0.1 mg

Phospholipase B-Like2 (PLBL2)

Phospholipase B-Like 2 (PLBL2) binds to humanized monoclonal antibodies, particularly those of the IgG4 isotype, which causes an immune response.

Catalog Number	Description	Species Reactivity or Antibody Host	Format	Product Type	Quantity
AG65-0324	Purified CHO PLBL2 Protein	CHO (Recombinant)	Unconjugated	Protein Standard	1.0 mg/0.1 mg
AG65-0365	Purified CHO PLBL2 Protein	CHO (Recombinant)	Unconjugated	Protein Standard	1.0 mg/0.1 mg
E-65PLB	Hamster CHO PLBL2 ELISA Kit	Hamster	Sandwich ELISA	ELISA Kit	96 well plate
GPLB-65ALY	anti-CHO PLBL2	Goat	Unconjugated	Primary Antibody	0.5 mg
GPLB-65B	anti-CHO PLBL2	Goat	Biotin Conjugated	Primary Antibody	0.5 mg/0.1 mg
MPLB-65ALY-4D5	anti-CHO PLBL2	Mouse	Unconjugated	Primary Antibody	0.5 mg/0.1 mg



Why Choose ICL?

With proven expertise in producing the highest quality primary and secondary antibodies, proteins, ELISA kits, and reference standards, ICL is your partner of choice to advance your research.

Our customers include many of the world's leading IVD manufacturers, pharmaceutical companies, and research institutions, who rely on us for both off-the-shelf and custom products at varying scales.

All our products are manufactured in the USA under rigorous process control and are backed by rapid customer service to keep your project on schedule.

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