

Host Cell Protein Products





ICL was among the first to commercialize ELISA kits that use highly specific and sensitive antibodies developed in our lab to detect specific CHO host cell proteins (HCP) like PLBL2 and NUCB2.

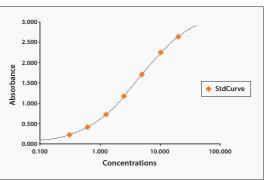
HCP may co-purify and contaminate monoclonal antibodies cultured in CHO cells, but ELISA kits make it fast and simple to identify these variables before they affect your research. Reducing or minimizing HCP impurities is mandated by federal guidelines and is crucial in the development and manufacturing of recombinant biotherapeutics, which are key treatment options for a wide range of illnesses.

Reducing CHO Protein Impurities

Many approved therapeutic glycoproteins are manufactured in Chinese Hamster Ovary (CHO) cells. While CHO cells are one of the most genetically engineered host cell systems for recombinant protein production, the contamination of CHO host cell proteins can adversely affect their use. Without addressing HCP impurities, there is an increased risk of contaminating research and even triggering an immune response upon administration.

ICL's high-quality antibodies and ELISA kits target specific CHO cells to avoid compromising patient safety and ensure more desirable clinical outcomes. Conducting a comprehensive risk assessment of host cell protein levels in CHO cell-based protein production is essential, and research or IVD teams can easily mitigate those risks by using a reliable, trusted supplier of biological reagents.





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

C-C Motif Chemokine

C-C Motif Chemokines are a family of secreted signaling proteins that direct immune cell trafficking and mediate inflammation.

Catalog Number	Description	Species Reactivity or Antibody Host	Format	Product Type	Quantity
GCC2-65ALY	anti-CHO C-C Motif Chemokine Antibody	Goat	Unconjugated	Primary Antibody	0.5 mg/0.1 mg
E-65CC2	Hamster (CHO) C-C Motif Chemokine ELISA kit	Hamster	Sandwich ELISA	ELISA Kit	96 well plate

Clusterin

 ${\color{blue} \textbf{Clusterin plays key roles in protein homeostasis/proteostasis, and the modulation of pro-survival signaling networks.} \\$

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 Antibody	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 Antibody	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 Antibody	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-65MP19	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 Antibody	Goat	Unconjugated	Primary Antibody	0.5 mg/0.1 mg

Peroxiredoxin-1

 $Peroxired oxin-1 is a cytosolic antioxidant enzyme that detoxifies \ hydrogen \ peroxide \ and \ regulates \ redox \ signaling$

Catalog Number	Description	Species Reactivity or Antibody Host	Format	Product Type	Quantity
AG65-0379-01-Z	Purified Hamster (CHO) Peroxiredoxin-1 Protein	CHO	Unconjugated	Protein Standard	0.1 mg
GPDX-65ALY	anti-CHO Peroxiredoxin-1 Antibody	Goat	Unconjugated	Primary Antibody	0.5 mg/0.1 mg
E-65PDX	Hamster (CHO) Peroxiredoxin-1 ELISA kit	Hamster	Sandwich ELISA	ELISA Kit	96 well plate

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.

rnospholipase b-Like 2 (FLDL2) blinds to humanized monocional antibodies, particularly those of the 1904 isotype, which causes an infinite 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 Antibody	Goat	Unconjugated	Primary Antibody	0.5 mg			
GPLB-65B	anti-CHO PLBL2 Antibody	Goat	Biotin Conjugated	Primary Antibody	0.5 mg/0.1 mg			
MPLB-65ALY-4D5	anti-CHO PLBL2 Antibody	Mouse	Unconjugated	Primary Antibody	0.5 mg/0.1 mg			