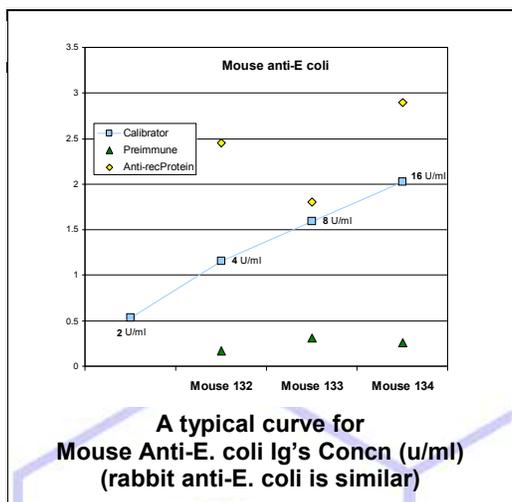


**Rabbit Anti-E. coli Ig's ELISA Kit, Cat# 500-120-ECP**



**Rabbit Anti-E. coli IgG ELISA Kit Features**

- E. coli antigen Pre-coated, stabilized, ready-to-use 96-well strip plate, suitable for multiple runs over 6-9 months.
- Convenient, stable, standards, containing anti-E. coli Ig's (2-16 u/ml)
- Sensitivity ~<2 u/ml; 100ul samples; 1:100 diluted or more
- 105 minute, 2 incubation step, room temp assay
- Contains all necessary reagents.
- Stability ~12 months

**This kit is supplied with an antibody conjugate that detects IgG+A+M in serum or plasma samples.** It is possible to use antibody isotype or subtype specific antibody conjugates (e.g., IgG or IgM specific) to detect specific anti-E. coli antibodies.

This kit For in vitro research use only.

**Assay Procedure:** Allow all reagents to reach room temperature. Arrange and label required number of strips.

- Step 1.** Pipet **100 ul each of pre-diluted standards**, samples containing anti-E. coli (1:100 diluted or as required) and controls into wells. Mix gently and incubate at room temperature on orbital shaker for **60 min**.
- Step 2.** **Aspirate and wash** the plate four times. **Add 100ul of Anti-Ig's-HRP** Conjugate to all wells, mix gently and incubate at room temperature for **30 min**.
- Step 3.** **Aspirate and wash** the plate five times. Add **100 ul of TMB Substrate** solution to all wells, mix gently, and incubate at room temperature for **20 min**.
- Step 4.** Pipet **100 ul of stop solution** into each well and mix gently (blue color turns yellow). **Measure OD at A450 nm**. Calculate concentration of anti-E. coli Ig's in each sample using the anti-E. coli IgG Standard curve.

**General Information**

A large number of genes have been cloned and expressed in various host cells (E. coli, yeast, baculovirus, NSO, Sp2/0, HEK, CHO cells). The translated recombinant proteins may remain within the cell, requiring host cell disruption for release, and/or may be secreted into the culture medium. The target recombinant proteins (recProtein) would then be purified from unwanted host cell protein (HCPs), often with the aid of a tag (e.g., His, GST, MBP). During the production of recProteins, host cells die and decompose; thus, regardless of whether the recombinant product is obtained from extracellular medium or after disrupting the host cell, the entire repertoire of host cell proteins present as potential contaminants in downstream purification and processing of the recProtein product.

HCPs in the processed recombinant may or may not be detectable by SDS-PAGE, ELISA, etc, which could have limited sensitivity or specificity for the particular E. coli protein(s) present. Immunization with preparations containing undetected HCP, however, often generate anti-HCP antibodies along with the specific anti-recProtein antibodies. Thus, the immunization process can represent a more sensitive method than others for disclosing low level HCP contamination. Alternatively, the unwanted anti-HCP activity may obscure and/or confuse the interpretation of immunoassays designed to characterize and utilize the anti-recProtein activity.

The Anti-E. coli HCP ELISA is a sensitive, specific assay for detecting this contaminating activity and, when coupled with use of an E. coli Proteins - Agarose absorbent, can verify the removal of the anti-HCP activity. The Assay Performance example demonstrates this HCP detection and removal strategy, using other ADI products:

**Related ELISA Kits**

Catalog#	ProdDescription
500-100-ECP	Mouse Anti-E. coli proteins Ig's ELISA Kit
EC11-G	E. Coli Proteins-Agarose affinity gel for removing E. coli antibodies
EC12-AS	Rabbit Anti-E. Coli Proteins IgG-Agarose affinity gel for removing E. coli proteins
800-130-ECP	E Coli proteins (5 strains) host cell proteins (HCPs) ELISA kit, 96 tests

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