Product Lists

In-Cell ELISA

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ICE Kits	Reacts with	Amounts	Product code
ICE (In-Cell ELISA) Support Pack		5 x 96 tests	ab111542
ICE (In-Cell ELISA) Support Pack w/o plates		5 x 96 tests	ab111541
MitoBiogenesis™ In-Cell ELISA Kit (IR)	Cow, Hu, Ms, Rat	2 x 96 tests	ab110216
MitoBiogenesis™ In-Cell ELISA Kit (Colorimetric)	Cow, Hu, Ms, Rat	2 x 96 tests	ab110217
PARP-1 (cleaved) In-Cell ELISA Kit (IR)	Hu	2 x 96 tests	ab110215
PhosphoPDH In-Cell ELISA Kit (Colorimetric)	Cow, Hu, Ms, Rat	2 x 96 tests	ab110219
PhosphoPDH In-Cell ELISA Kit (IR)	Cow, Hu, Ms, Rat	2 x 96 tests	ab110218

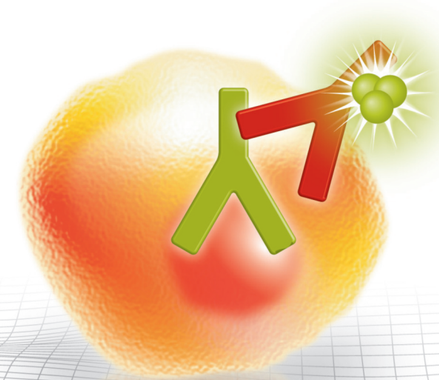
ICE Validated antibodies	Reacts with	Product code
ACAA1	Hu, Ms, Rat	ab110289
ACAA1	Hu	ab110290
ACADM	Hu, Ms, Rat, Cow	ab110296
ACADS	Hu, Rat	ab110318
Aconitase 2	Hu, Ms, Rat	ab110320
Aconitase 2	Hu, Ms, Rat	ab110321
AGXT	Hu, Rat, Cow	ab110313
AIF	Hu	ab110327
ALDH2	Hu, Ms, Rat, Cow	ab110311
ATPG	Hu, Ms, Rat, Cow	ab119686
Catalase	Hu, Rat, Cow	ab110292
Cleaved PARP	Hu	ab110315
CPT2	Hu, Ms, Rat, Cow	ab110293
CRYZ	Hu	ab110310
Cyclophilin 40	Hu, Ms, Rat, Cow	ab110324
Cytochrome C	Hu, Ms, Rat, Ce, Cow	ab110325
DCXR	Hu	ab110283
DECR1	Hu	ab110287
ECH1	Hu, Rat	ab110294
Epoxide hydrolase	Hu	ab110307
FH	Hu, Rat, Cow	ab110286
Frataxin	Hu, Ms, Rat, Cow, Dog	ab113691
GAPDH	Hu	ab110305
GOT2	Hu, Ms, Rat, Cow	ab113693
HADHA	Hu	ab110281
HADHB	Hu	ab110301

ICE Validated antibodies *(continued)*	Reacts with	Product code
HADHSC	Hu	ab110284
HMGCL	Hu	ab110295
HSDL2	Hu	ab110298
Hsp60	Hu	ab110312
MADD	Hu, Ms, Rat	ab110316
MDH2	Hu, Ms, Rat, Pig	ab110317
MGST3	Hu, Rat	ab110309
Mitochondrial Pyruvate dehydrogenase kinase 1	Hu, Cow	ab110335
Mitofilin	Hu	ab110329
mtTFA	Hu	ab119684
Nitrotyrosine	Hu, Ms, Rat, Cow	ab110282
OGDH	Hu, Cow, Pig	ab110306
PCB	Hu, Ms, Rat, Cow	ab110314
Pyruvate Dehydrogenase E1-alpha subunit	Hu, Ms, Rat, Cow	ab110330
Pyruvate Dehydrogenase E2	Hu, Cow	ab110332
SIRT1	Hu, Ms, Rat	ab110304
SLIRP	Hu	ab119687
Superoxide Dismutase 2	Hu, Ms, Rat, Cow	ab110300
VCP	Hu, Ms, Rat	ab110308

IRdye® secondary antibodies and IRDye® kits offer greater dynamic range and sensitivity. In addition, MitoSciences offers isotype-specific anti-mouse IRdye® conjugated secondary antibodies to allow duplexing with two mouse monoclonal antibodies of differing isotype. All secondary antibodies are included in ICE reagent kits or can be purchased separately.

Secondary antibodies	Product code
Goat polyclonal Secondary Antibody to IgG - H&L (IRDye® 800CW)	ab110403
Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (IRDye® 680)	ab110404
Goat polyclonal Secondary Antibody to Mouse IgG1 (IRDye® 680LT)	ab110405
Goat polyclonal Secondary Antibody to IgG2a (IRDye® 800CW)	ab110406
Goat polyclonal Secondary Antibody to Mouse (IRDye® 800CW)	ab110407
Goat polyclonal Secondary Antibody to Mouse IgG - H&L (HRP)	ab110408
Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (HRP)	ab110409

Validated antibodies, dyes and kits for the analysis of fixed adherent and suspension cells.



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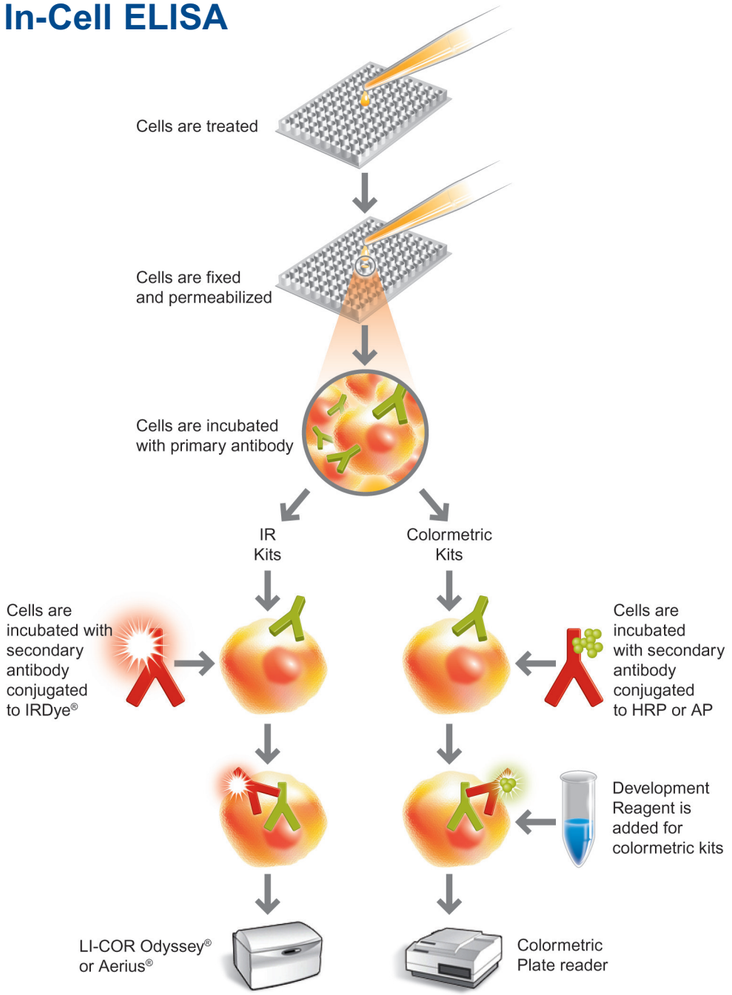
In-Cell ELISA



Advantages of In-Cell ELISA

Flexible

- Measure specific protein level or post-translation modifications (e.g. phosphorylation or cleavage events).
- Suitable for adherent and non-adherent cell types.
- Colorimetric or IR-dye detection methods (IR-dyes can be duplexed within wells).
- Microplate format allows (1) parallel testing of low numbers of analytes across a range of culture conditions, drug treatments, or cell lines (2) testing of many analytes across few conditions.

Fast and inexpensive

- No lysate preparation or lysate transfer required.
- 96- and 384-well formats are high-throughput and primed for automation.
- No capture antibody means less reagent cost than sandwich ELISAs.

Reproducible, quantitative

- Direct fixation in microplates freezes and preserves cells in their biologically relevant state.
- Suited for duplicate or triplicate measurements.
- Signals can be normalized to total protein readout or to cell number.

Specific

- MitoSciences' antibodies are rigorously validated for ICE application.
- Optimized assay kits available.
- Support packs and a spectrum of detection antibodies simplify experimental design.

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Summary of the method

In-Cell ELISA is a quantitative immunocytochemistry method to measure protein levels or post-translational modifications of cells.

Key Features

- Cells are cultured to approximately 80% confluency in a 96- or 384-well plate, a drug or other treatment is applied to stimulate a cellular response.
- Cells are fixed and permeabilized in the wells. Fixation to data acquisition requires ~30 minutes of hands-on time. Alternatively, fixed cell plates are stable for weeks to months at 4°C in the presence of sodium azide.
- Cells are blocked and exposed to primary antibody which binds to their intended targets within the mitochondria or other subcellular compartment. After incubation, the unbound primary antibodies are washed away.
- Secondary antibodies are added and the plates are scanned. Unbound secondary antibody is washed away, reaction buffer is added for the colorimetric assays and the signal is read on a suitable instrument for the kit type.
- MitoSciences anti-mouse and anti-rabbit HRP-conjugated secondary antibodies, and also anti-mouse and anti-rabbit IRdye® conjugated secondary antibodies are available for these assays.
- Antibody signal can be normalized to Janus Green whole cell stain to account for any differences in seeding density between wells.

ICE data can be collected with a LiCor® Odyssey® or Aerius® scanner using IRdye®-labeled secondary antibodies or a standard absorbance microplate reader using HRP-labeled secondary antibodies. When a LiCor® infrared reader is available, duplexing readouts within a single well is possible using IR-800 and IR-680 labeled secondary antibodies.

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