

Product datasheet

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ARG82349 Mouse MPL / TPOR ELISA Kit

Package: 96 wells Store at: 4°C

Component

| Cat. No. | Component Name | Package | Temp |
|--------------|---------------------------------------|----------------------|---|
| ARG82349-001 | Antibody-coated microplate | 8 X 12 strips | 4°C. Unused strips should be sealed tightly in the air-tight pouch. |
| ARG82349-002 | Standard | 2 X 10 ng/vial | 4°C |
| ARG82349-003 | Standard/Sample diluent | 30 ml (Ready to use) | 4°C |
| ARG82349-004 | Antibody conjugate concentrate (100X) | 1 vial (100 μl) | 4°C |
| ARG82349-005 | Antibody diluent buffer | 12 ml (Ready to use) | 4°C |
| ARG82349-006 | HRP-Streptavidin concentrate (100X) | 1 vial (100 μl) | 4°C |
| ARG82349-007 | HRP-Streptavidin diluent buffer | 12 ml (Ready to use) | 4°C |
| ARG82349-008 | 25X Wash buffer | 20 ml | 4°C |
| ARG82349-009 | TMB substrate | 10 ml (Ready to use) | 4°C (Protect from light) |
| ARG82349-010 | STOP solution | 10 ml (Ready to use) | 4°C |
| ARG82349-011 | Plate sealer | 4 strips | Room temperature |
| | | | |

Summary

| Product Description | Description ARG82349 Mouse MPL / TPOR ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mous MPL / TPOR in serum, plasma (EDTA, heparin) and cell culture supernatants. | |
|---------------------|---|--|
| Tested Reactivity | Ms | |
| Tested Application | ation ELISA | |
| Target Name | MPL / TPOR | |
| Conjugation | HRP | |
| Conjugation Note | Substrate: TMB and read at 450 nm. | |
| Sensitivity | 78 pg/ml | |
| Sample Type | Serum, plasma (EDTA, heparin) and cell culture supernatants. | |
| Standard Range | 156 - 10000 pg/ml | |
| Sample Volume | le Volume 100 μl | |
| Precision | Intra-Assay CV: 5.7% Inter-Assay CV: 6.5% | |

leukemia protein; TPOR; THCYT2; CD antigen CD110

Application Instructions

Assay Time

~ 5 hours

Properties

Form

96 well

Storage instruction

Store the kit at $2-8^{\circ}$ C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual

for detail temperatures of the components.

Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol

MPL

Gene Full Name

MPL proto-oncogene, thrombopoietin receptor

Background

In 1990 an oncogene, v-mpl, was identified from the murine myeloproliferative leukemia virus that was capable of immortalizing bone marrow hematopoietic cells from different lineages. In 1992 the human homologue, named, c-mpl, was cloned. Sequence data revealed that c-mpl encoded a protein that was homologous with members of the hematopoietic receptor superfamily. Presence of anti-sense oligodeoxynucleotides of c-mpl inhibited megakaryocyte colony formation. The ligand for c-mpl, thrombopoietin, was cloned in 1994. Thrombopoietin was shown to be the major regulator of megakaryocytopoiesis and platelet formation. The protein encoded by the c-mpl gene, CD110, is a 635 amino acid transmembrane domain, with two extracellular cytokine receptor domains and two intracellular cytokine receptor box motifs . TPO-R deficient mice were severely thrombocytopenic, emphasizing the important role of CD110 and thrombopoietin in megakaryocyte and platelet formation. Upon binding of thrombopoietin CD110 is dimerized and the JAK family of non-receptor tyrosine kinases, as well as the STAT family, the MAPK family, the adaptor protein Shc and the receptors themselves become tyrosine phosphorylated. [provided by RefSeq, Jul 2008]

Function

Receptor for thrombopoietin. May represent a regulatory molecule specific for TPO-R-dependent immune responses. [UniProt]

Highlight

Related products:

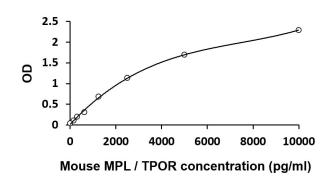
New ELISA data calculation tool: Simplify the ELISA analysis by GainData

PTM

Ubiquitination at Lys-553 and Lys-573 targets MPL for degradation by both the lysosomal and proteasomal pathways. The E3 ubiquitin-protein ligase CBL significantly contributes to this ubiquitination. [UniProt]

Cellular Localization

Cell membrane; Single-pass type I membrane protein. Golgi apparatus. Cell surface. [UniProt]



ARG82349 Mouse MPL / TPOR ELISA Kit standard curve image

ARG82349 Mouse MPL / TPOR ELISA Kit results of a typical standard run with optical density reading at 450 nm.