Multiscreen™ Division Arrested Cell Line
Human Recombinant LPA4 Receptor

**Product Information**

- **Catalog Number**: DC1087-1a
- **Lot Number**: DC1087-1a-070114
- **Quantity**: 1 vial (4 x 10^6) frozen cells
- **Freeze Medium**: Sigma Freezing Medium (C-6164)
- **Host Cell**: CHO-K1
- **Transfection**: Expression vector containing full-length human LPA4 cDNA (GenBank accession number NM_005296) with FLAG tag sequence at N-terminus
- **Recommended Storage**: Liquid nitrogen upon receiving
- **Propagation Medium**: DMEM/F12, 10% dialyzed FBS
- **Stability**: Stable for 1-2 days after thawing

**Data Sheet**

**Background**: Human LPA4 (also known as P2Y9 and GPR23) receptors are G protein-coupled receptors. The cDNA encodes a 370-amino-acid polypeptide. The LPA4 receptors are predominately expressed in ovary, and also present in kidney, skeletal muscle and other brain and peripheral tissues. In rat neuroblastoma cells overexpressing the receptors, LPA promotes neurite retraction and cell rounding indicating LPA4 may mediate morphological changes in neuronal cells. Studies in LPA4 knockout mice revealed a role of LPA4 in the negative control of cell migration.

**Application**: Functional assays

- **Dose-dependent increase of intracellular cAMP accumulation upon treatment with ligand, measured with Multiscreen™ TR-FRET cAMP 1.0 No Wash Assay Kit (Multispan MSCM01).**

**References**: