

MicroRNA-Mediated Krüppel-Like Factor 4 upregulation Induces Alternatively Activated Macrophage-Associated Markers and Chemokines Transcription in 4,4'-Methylene Diphenyl Diisocyanate Exposed Macrophages

Data Dictionary

Field Name	Field Contents
anti-IgG isotype	Anti immunoglobulin G isotype control; IgG antibody that is suitable for use as a non-targeting isotype control in various in vitro and in vivo studies
anti-panAGO	anti Argonaute proteins antibody; antibody against Argonaute protein 1-4; used to precipitate RNA-induced silencing complex which consist of argonaute proteins and associated mRNA and miRs
<i>CCL17</i>	Human C-C Motif Chemokine Ligand 17 mRNA; a member of chemokines involved in immunoregulatory and inflammatory processes
<i>CCL22</i>	Human C-C Motif Chemokine Ligand 22 mRNA; a member of chemokines involved in immunoregulatory and inflammatory processes
<i>CCL24</i>	Human C-C Motif Chemokine Ligand 24 mRNA; a member of chemokines involved in immunoregulatory and inflammatory processes
<i>CD206</i>	Human Mannose Receptor C-Type 1 mRNA; a cell surface marker for M2 macrophages which recognizes and binds high-mannose structures on the surface of potentially pathogenic viruses, bacteria, and fungi
DMSO	Dimethyl Sulfoxide; used to dissolve kenpaullone
Fold change	Fold change in gene expression compared to control. Determined by real-time PCR.
GSH	Reduced glutathione; antioxidant in biological system to reduce oxidative stress from reactive oxygen species
<i>hsa-miR-206-3p</i>	Human microRNA-206-3p; a member of human microRNAs which participate in posttranscriptional regulation of many human genes and cellular processes in different cells
<i>hsa-miR-381-3p</i>	Human microRNA-381-3p; a member of human microRNAs which participate in posttranscriptional regulation of many human genes and cellular processes in different cells
IP antibody	immunoprecipitation antibody
Kenpaullone	a small molecule chemical inhibitor of KLF4
<i>KLF4</i>	Human Krüppel-like factor 4 mRNA; a member of Krüppel-like transcription factors involved in stem cell, cell differentiation, immunoregulatory processes
MDI	4,4'-methylene diphenyl diisocyanate; reactive chemical that is used for polyurethan production; cause agent for occupational asthma
miR	MicroRNA; a class of non-coding RNAs that participated in posttranscriptional regulation of many different genes and cellular processes in different cell types
miR-inhibitor	Inhibitors of microRNA; commercially available inhibitor that was designed to bind endogenous microRNAs to inhibit its function and expression
miR-inhibitor-206-3p	microRNA-206-3p inhibitor; commercially available microRNA inhibitor that was designed to target endogenous <i>hsa-miR-206-3p</i>
miR-inhibitor-381-3p	microRNA-381-3p inhibitor; commercially available microRNA inhibitor that was designed to target endogenous <i>hsa-miR-381-3p</i>

miR-inhibitor-Ctl	microRNA inhibitor control; commercial available microRNA inhibitor control that was designed not targeting any endogenous microRNAs and it served as transfection control for other microRNA inhibitors
miR-mimic-206-3p	microRNA-206-3p mimic; commercially available microRNA mimic that was designed to serve as exogenous <i>hsa-miR-206-3p</i> to study <i>hsa-miR-206-3p</i> function in the cells
miR-mimic-381-3p	microRNA-381-3p mimic; commercially available microRNA mimic that was designed to serve as exogenous <i>hsa-miR-381-3p</i> to study <i>hsa-miR-381-3p</i> function in the cells
miR-mimic-Ctl	microRNA mimic control; commercially available microRNA mimic control, an exogenous stable exogenous microRNA which cannot target any endogenous microRNA; it served as transfection control for other microRNA mimics
miR-mimics	mimics of microRNA; commercially available exogenous microRNAs that was designed as stable exogenous microRNA, ready for transfection and used to study microRNA function in the cells
Mock	Treatments containing only complete media (RPMI-1640 supplement with 10% Fetal Bovine Serum, and 1× penicillin-streptomycin-glutamine)
pCMV6-Entry	Empty plasmid DNA vector containing Human cytomegalovirus immediate-early (CMV) promoter as control.
pCMV6-Entry-KLF4	Plasmid DNA containing CMV promoter for high-level expression of KLF4 gene in mammalian cells
Plasmid transfected	Indicated the cells was transfected with the plasmid DNA
TGM2	Human Transglutaminase 2 mRNA; belongs to transglutaminases are enzymes that catalyze the crosslinking of proteins by epsilon-gamma glutamyl lysine isopeptide bonds