

# Resource Summary Report

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## Oil Red O Staining

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Type: Protocol

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### Proper Citation

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### Protocol Information

**URL:** <https://dx.doi.org/10.17504/protocols.io.iemcbc6>

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**Summary:** Adipogenic differentiation was induced by using the StemPro adipogenesis differentiation kit (Invitrogen, Carlsbad, CA, USA). WJCMSCs were grown in the adipose-inducing medium for 3 weeks. For Oil Red O staining, after induction, cells were fixed with 10% formalin for at least 1 h at room temperature. Next, cells were stained with the 60% Oil Red O in isopropanol as working solution for 10 min. The proportion of Oil Red O-positive cells was determined by counting stained cells under a light microscope. The final OD value in each group was normalized with the total protein concentrations prepared from a duplicate plate.

**Associated Publications:** Wang Y, Liu Y, Fan Z, Liu D, Wang F, Zhou Y (2017) IGFBP2 enhances adipogenic differentiation potentials of mesenchymal stem cells from Wharton's jelly of the umbilical cord *via* JNK and Akt signaling pathways. PLoS ONE 12(8): e0184182. doi: [10.1371/journal.pone.0184182](https://doi.org/10.1371/journal.pone.0184182)

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