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Human Skeletal Muscle Cells: HSkMC

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Cell Applications Inc Brochure

Description

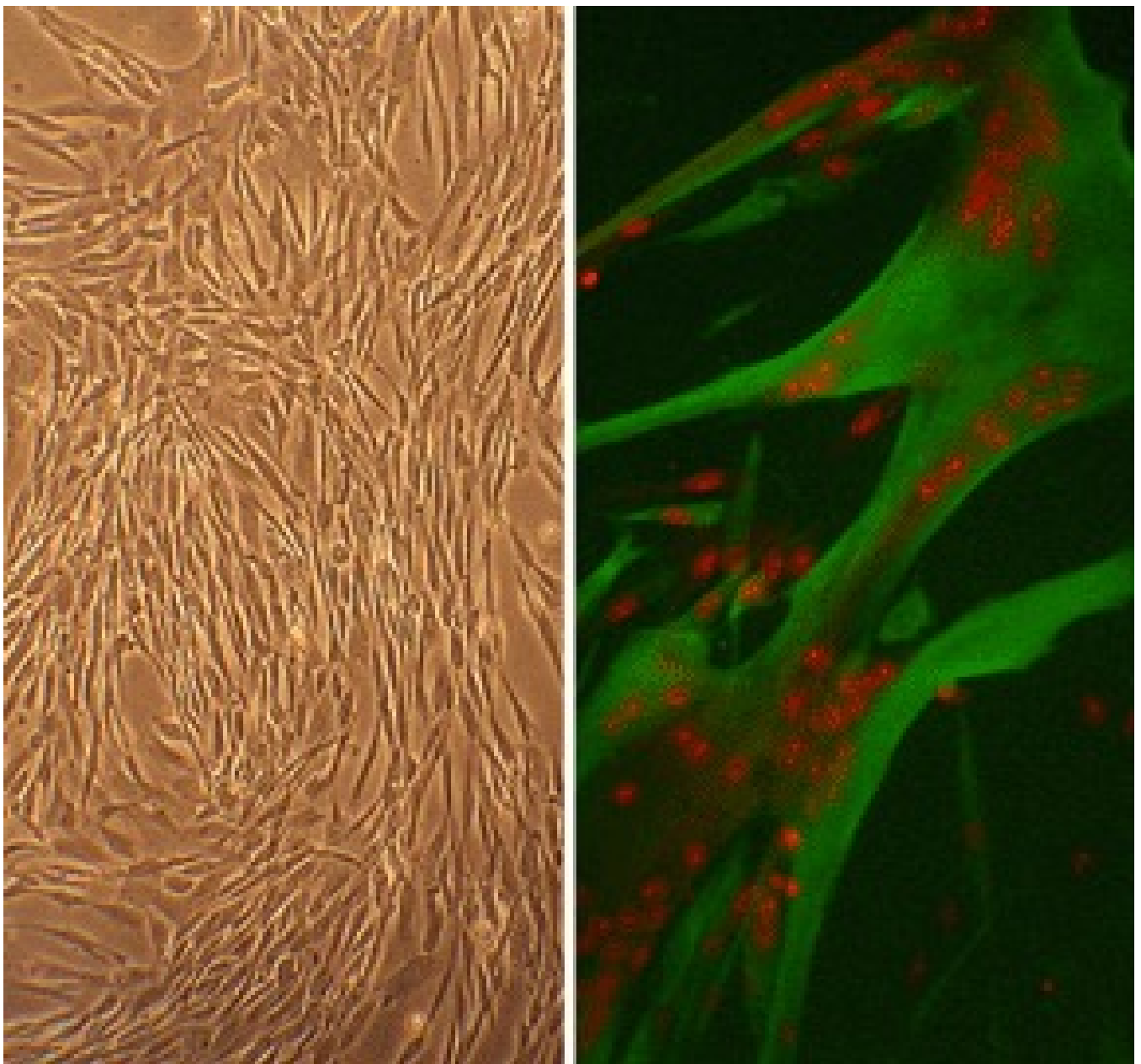
Human Skeletal Muscle Cells (HSkMC), isolated from adult or fetal donor limbs are positive for sarcomere myosin and can undergo differentiation to exhibit actin and myosin myofilaments. Our HSkMC provide a useful model system to study many aspects of muscular function and disease. Skeletal Muscle Cells play an instrumental role in the glucose metabolism and diabetes.

Select HSkMC lots have been additionally tested to demonstrate stimulation-dependent AMPK signaling and responsiveness to insulin stimulation. More information about pre-screened skeletal muscle cells can be found on the [Pre-Screened Skeletal Muscle Cell Product Page](#) [1].

HSkMC from Cell Applications, Inc. have been used to:

- Serve as a differentiated control in a study of developmental regulator genes in hESC
- Characterize statin-induced gene expression changes and demonstrate cytotoxic effect of statins in skeletal muscle cells
- Identify molecular mechanisms of mitochondrial myopathy and sideroblastic anemia resulting from a missense mutation in the PUS1 gene
- Investigate chemokine-like factor expression in the idiopathic inflammatory myopathies
- Demonstrate that fasting activates AceCS2 gene expression by inducing KLF15 transcription factor
- Characterize human FGFR3-positive sarcoma-initiating stem cells
- Identify trans-Golgi network proteins and Notch and Hedgehog pathways as putative targets for rhabdomyosarcoma therapy

- Show that riluzole muscle relaxant effects are mediated by inhibition of INa and stimulation of BKC-channel activity
- Develop nitric esters that combine the pharmacological functions of NO and muscle relaxation properties for treatment of muscular diseases
- Develop biodegradable polymer-based transgene delivery vectors for muscular dystrophy treatment
- Design optimal coating for orthopedic metallic implants



[2]

(Click to Enlarge) **Human Skeletal Muscle Cells, HSkMC (L)**. Fused HSkMC (fetal) immunolabeled for

desmin (green), nuclei visualized with PI (red) (R).

Details

Tissue	Normal healthy human limb skeletal muscle
QC	No bacteria, yeast, fungi, mycoplasma, virus
Character	Multinucleated myotubes form after culture in fusion medium
Bioassay	Attach, spread, proliferate in Growth Med
Cryovial	500,000 HSkMC (2nd passage) frozen in Basal Medium w/ 10% FBS, 10% DMSO
Kit	Cryovial frozen HSkMC (150-05), Growth Medium (151-500), Subcltr Rgnt Kit (090K)
Proliferating	Shipped in Tsfr Med, psg 3, flasks or plates
Doublings	At least 15
Applications	Laboratory research use only (RUO). Not for human, clinical, diagnostic or veterinary use.

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Products

Related Products

Extended Family Products

Resources/Documents

5 Important Cell Culture Rules

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