

Recombinant Human LEFTY2 cell lysate

Cat. No. LEFTY2-2779HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human Lefty A derived in Human Cells. The whole cell lysate is provided in 1X Sample Buffer. Browse all transfected cell lysate positive controls
Species	Human
Source	Human Cells
Preparation method	Transfected cells were cultured for 48hrs before collection. The cells were lysed in modified RIPA buffer with cocktail of protease inhibitors. Cell debris was removed by centrifugation and then centrifuged to clarify the lysate. The cell lysate was boiled for 5 minutes in 1 x SDS sample buffer (50 mM Tris-HCl pH 6.8, 12.5% glycerol, 1% sodium dodecylsulfate, 0.01% bromophenol blue) containing 5% b-mercaptoethanol, and lyophilized.
Lysis buffer	Modified RIPA Lysis Buffer: 50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF
Quality control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Recommended Usage	1. Centrifuge the tube for a few seconds and ensure the pellet at the bottom of the tube. 2. Re-dissolve the pellet using 200µL pure water and boiled for 2-5 min. 3. Store it at -80°C. Recommend to aliquot the cell lysate into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles. Notes: The lysate is ready to load on SDS-PAGE for Western blot application. If dissociating conditions are required, add

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	reducing agent prior to heating.
Stability	Samples are stable for up to twelve months from date of receipt at -80°C
Storage Buffer	50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF
Storage Instruction	Lysate samples are stable for 12 months from date of receipt when stored at -80°C. Avoid repeated freeze-thaw cycles. Prior to SDS-PAGE fractionation, boil the lysate for 5 minutes.

GENE INFORMATION

Gene Name	LEFTY2 left-right determination factor 2 [Homo sapiens]
Official Symbol	LEFTY2
Synonyms	LEFTY2; left-right determination factor 2; EBAF, endometrial bleeding associated factor (left right determination, factor A; transforming growth factor beta superfamily) , TGFB4; LEFTA; LEFTYA; transforming growth factor; beta 4 (endometrial bleeding associated factor; LEFTY A); TGF-beta-4; protein lefty-2; protein lefty-A; left-right determination factor A; transforming growth factor beta-4; endometrial bleeding-associated factor; EBAF; TGFB4; MGC46222;
Gene ID	7044
mRNA Refseq	NM_003240
Protein Refseq	NP_003231
UniProt ID	O00292

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Chromosome Location	1q42.1
Pathway	Developmental Biology, organism-specific biosystem; Hemostasis, organism-specific biosystem; Platelet activation, signaling and aggregation, organism-specific biosystem; Platelet degranulation, organism-specific biosystem; Regulation of Signaling by NODAL, organism-specific biosystem; Response to elevated platelet cytosolic Ca ²⁺ , organism-specific biosystem; Signaling by NODAL, organism-specific biosystem;
Function	cytokine activity; growth factor activity; transforming growth factor beta receptor binding;

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