

EP

SUMMARY

TISSUE

BRAIN

SINGLE CELL

SUBCELL

CANCER

BLOOD

CELL LINE

STRUCTURE

INTERACTION

TISSUE

PRIMARY DATA

TISSUES

ANTIBODIES AND VALIDATION

Dictionary

Tissue proteome

Tissue methods

GENERAL INFORMATIONⁱ

Gene nameⁱ

PREP

Gene descriptionⁱ

Prolyl endopeptidase

Protein classⁱ

Enzymes
Metabolic proteins
Plasma proteins

Predicted locationⁱ

Intracellular

Number of transcriptsⁱ

3

HUMAN PROTEIN ATLAS INFORMATIONⁱ

Tissue expression cluster (RNA)ⁱ

Non-specific - Basic cellular processes (mainly)

Tissue specificity (RNA)ⁱ

Low tissue specificity

Tau specificity score (RNA)ⁱ

0.35

Tissue distribution (RNA)ⁱ

Detected in all

Protein evidenceⁱ

Evidence at protein level

Protein expressionⁱ

General cytoplasmic expression.

IMMUNOHISTOCHEMISTRY DATA RELIABILITY

Data reliability descriptionⁱ

Medium consistency between antibody staining and RNA expression data. Pending external verification.

Reliability scoreⁱ

Supported

Antibodiesⁱ

HPA031388 , HPA031389 , HPA031390 , CAB025414

ASSAYSⁱ

Protein expression

Protein abundance (MS)

Expression clustering

RNA expression

RNA AND PROTEIN EXPRESSION SUMMARYⁱ

Expression

Detection

All organs

Brain

Eye

Endocrine tissues

Respiratory system

Proximal digestive tract

Gastrointestinal tract

Liver & Gallbladder

Pancreas

Kidney & Urinary bladder

Male tissues

Female tissues

RNA expression (nTPM)ⁱ

Protein expression (score)ⁱ

Cerebral cortex

Colon

Liver

Kidney

Testis

Lymph node

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https://www.proteinatlas.org/ENSG00000085377-PREP/tissue

Petitioner GE Healthcare – Ex. 1083, p. 1

GE Healthcare Ltd. v. The Johns Hopkins University

PGR2025-00059

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Fields »

TISSUE

PRIMARY DATA

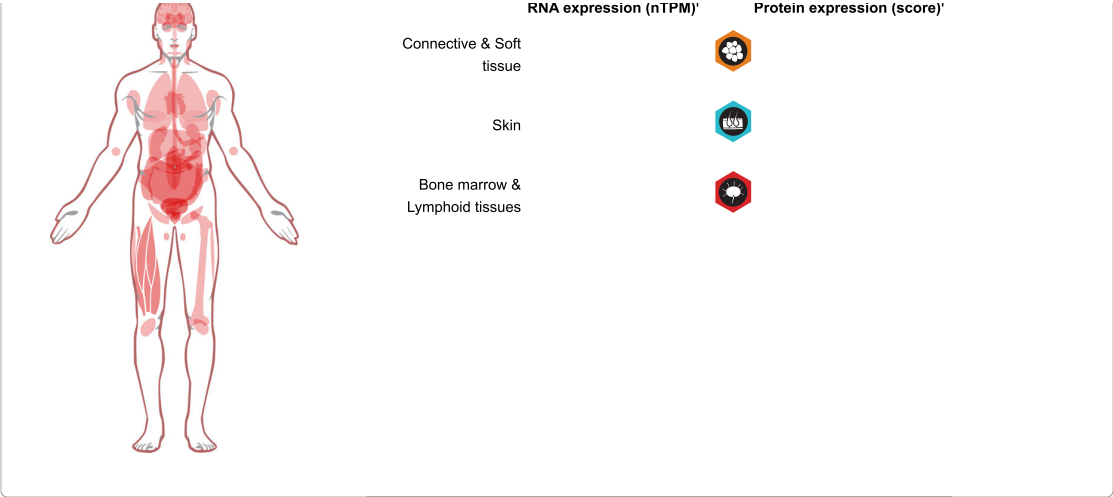
TISSUES

ANTIBODIES AND VALIDATION

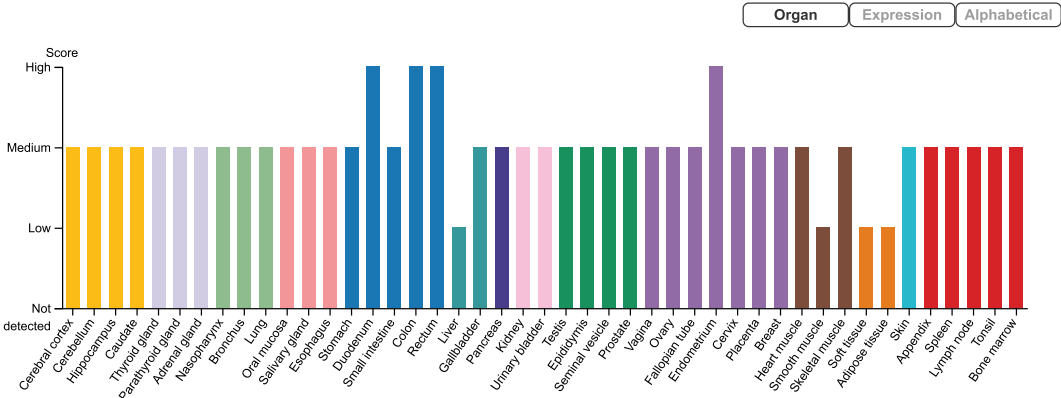
Dictionary

Tissue proteome

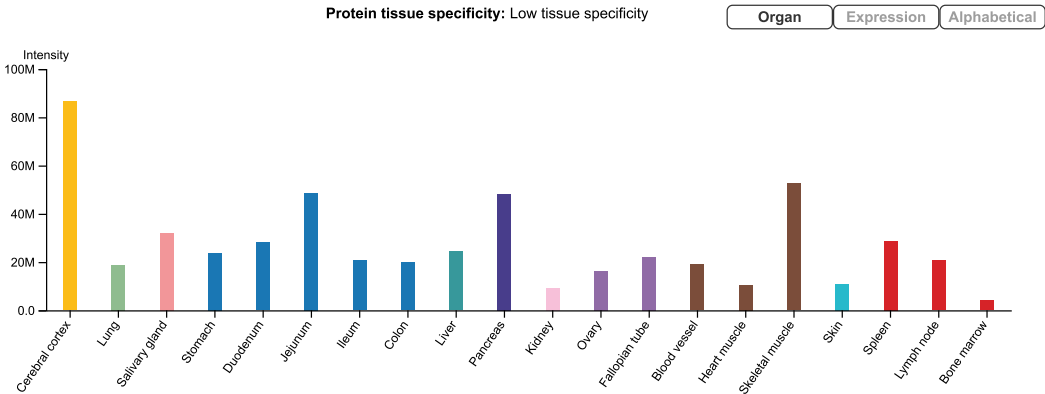
Tissue methods



PROTEIN EXPRESSION OVERVIEWⁱ



PROTEIN ABUNDANCE (MS)ⁱ



EXPRESSION CLUSTERING & CORRELATIONⁱ

PREP is part of cluster 63 Non-specific - Basic cellular processes with confidenceⁱ 1

635 genes in cluster

Go to interactive expression cluster page

15 nearest neighbours based on tissue RNA expression

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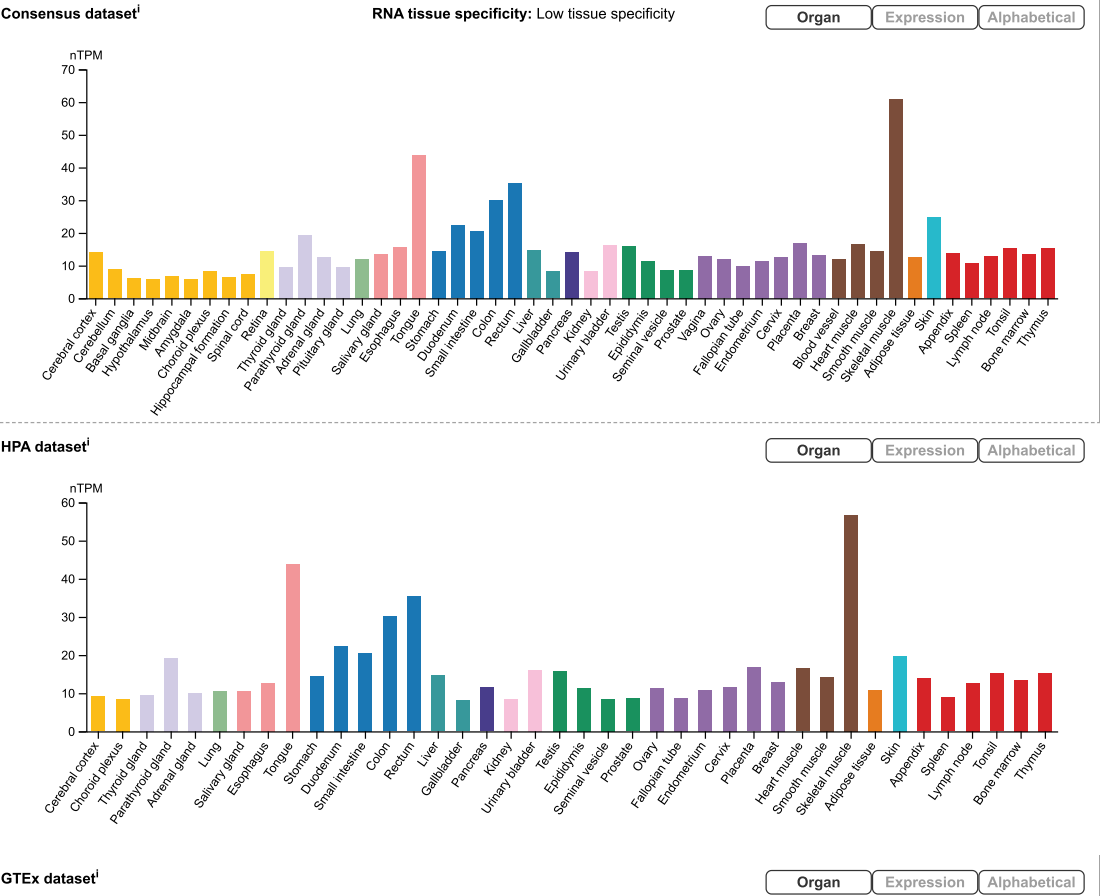
Tissue proteome



Neighbour ¹	Description ¹	Correlation ¹	Cluster ¹
ACSS2	Acyl-CoA synthetase short chain family member 2	0.8538	63
MAP2K6	Mitogen-activated protein kinase kinase 6	0.8498	63
EIF4E2	Eukaryotic translation initiation factor 4E family member 2	0.8429	63
MYH14	Myosin heavy chain 14	0.8409	63
CEBPG	CCAAT enhancer binding protein gamma	0.8340	63
CAB39	Calcium binding protein 39	0.8300	63
MED14	Mediator complex subunit 14	0.8231	19
ENSG00000285133	Novel protein	0.8063	30
GDNF	Glial cell derived neurotrophic factor	0.8063	25
USP19	Ubiquitin specific peptidase 19	0.7925	63
UTP11	UTP11 small subunit processome component	0.7885	19
PHKB	Phosphorylase kinase regulatory subunit beta	0.7875	63



RNA EXPRESSION OVERVIEW¹



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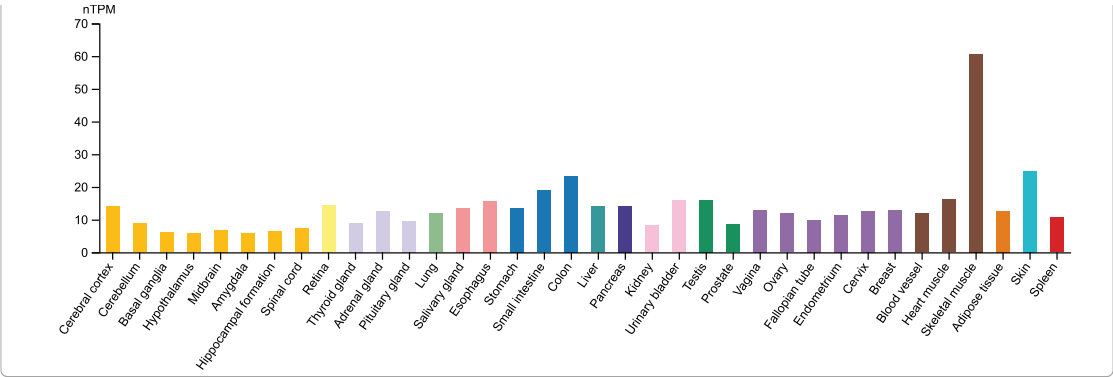
TISSUE
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AND
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Tissue proteome



Tissue methods



FANTOM EXPRESSION OVERVIEW

FANTOM5 dataset

Scaled Tags Per Million

200

150

100

50

0

Cerebral cortex

Cerebellum

Olfactory bulb

Pons and medulla

Corpus callosum

Basal ganglia

Thalamus

Midbrain

Amygdala

Pons

Hippocampal formation

Spinal cord

Retina

Thyroid gland

Pituitary gland

Lung

Salivary gland

Esophagus

Tongue

Small intestine

Colon

Liver

Gallbladder

Pancreas

Kidney

Urinary bladder

Ductus deferens

Testis

Epididymis

Seminal vesicle

Prostate

Vagina

Ovary

Cervix

Placenta

Breast

Heart muscle

Smooth muscle

Skeletal muscle

Adipose tissue

Appendix

Spleen

Lymph node

Tonsil

Thymus

Organ

Expression

Alphabetical

Contact

NEWS ARTICLES

PRESS ROOM

contact@proteinatlas.org

The Project

INTRODUCTION

ORGANIZATION

PUBLICATIONS

The Human Protein Atlas

DOWNLOADABLE DATA

LICENCE & CITATION

HELP & FAQ

Knut and Alice
Wallenberg
Foundation

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by the Knut & Alice Wallenberg Foundation.



GLOBAL
CORE
BIODATA
RESOURCE



SciLifeLab

