

iSort™ Products and Services

What is iSort™?

CIBERSORT(x) technology, originally developed at Stanford University*, is fully and exclusively licensed to CiberMed, Inc. for commercial use. CiberMed further optimized and validated the technology and currently provides the following iSort™ software suites and services for commercial use.

* Newman et al. *Nature Methods* (2015); Newman et al. *Nature Biotechnology* (2019)

Overview of the Products and Services

	iSort™				
	Map & Quant	iSort™ Fractions Immune cell quantification	iSort™ HiRes Cell-type-specific gene expression imputation	Create custom signature matrix	Biomarker discovery Post data analysis
Collaboration	✓	✓	✓	✓	✓
Self-Service (Run iSort™)	✓	✓	✓		

We offer two types of services: “Collaboration” and “Self-Service”.

Self-Service

A user runs iSort™ software tool(s) locally or on a browser. A free trial is available. We currently offer **iSort™ Fractions** (to enumerate 22 cell types for blood and 25 cell types for tissue samples) and **iSort™ HiRes** (to infer cell-type specific gene expression for each sample). We also offer Map & Quant (to map and quantify reads) for optional usage.

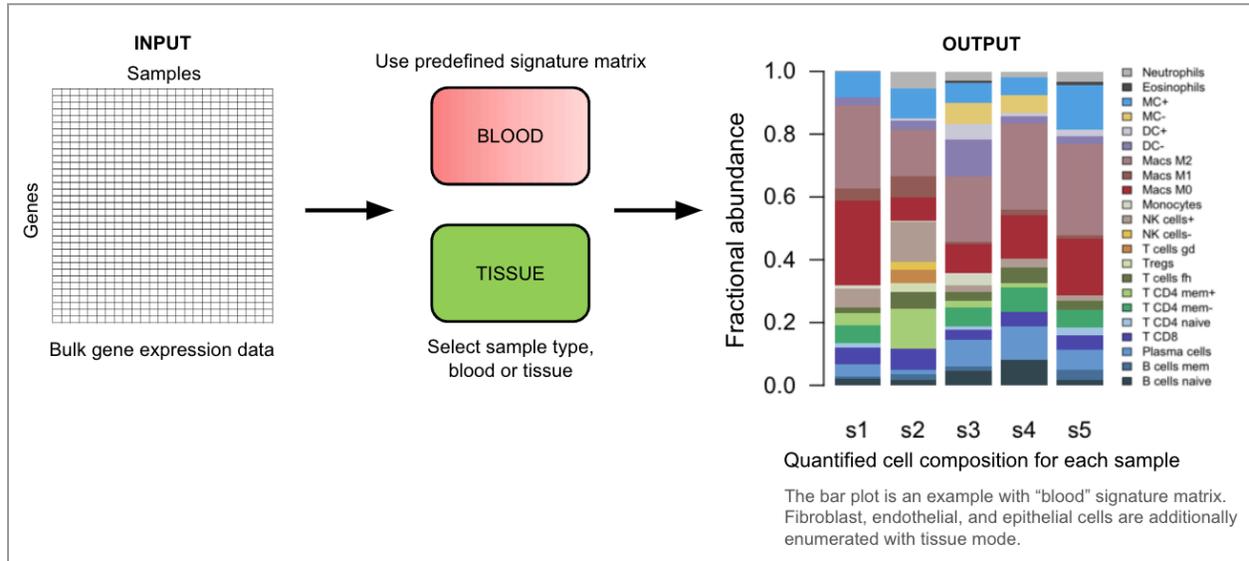
Collaboration

A user selects the type(s) of data science services.

If you are interested in data science services such as data analysis of iSort™ Fractions/HiRes including biomarker discovery, or other functions described in the CIBERSORTx publication (Newman et al, *Nature Biotech*, 2019) such as creating custom reference profiles, “collaboration” is perfect for you. Collaboration also comes with consultation by CiberMed co-founders (original authors of CIBERSORTx) and Bioinformatics industry experts.

iSort™ Fractions

iSort™ Fractions quantifies immune cells from bulk transcriptome data.



The iSort™ Fractions software package includes predefined signature matrices as shown on the right.

You can enumerate proportions of 22 immune cell subsets with "blood" mode and additional 3 cell types with "tissue" mode.

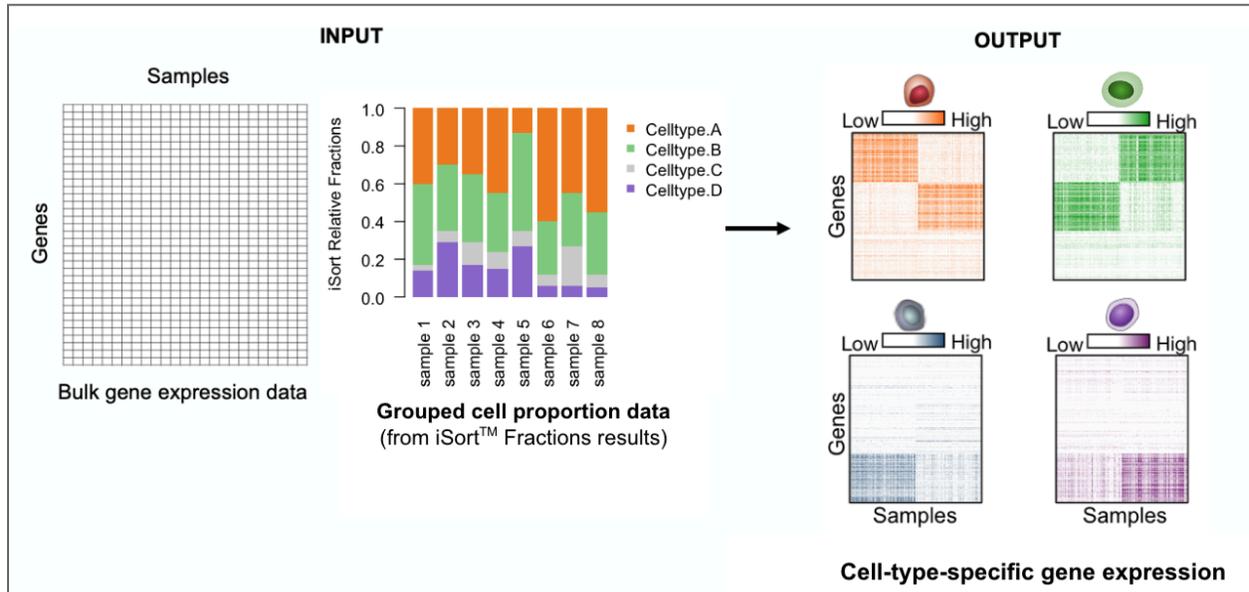
iSort™ Fractions can be run locally by a Docker-containerized stand-alone tool or on a browser.

<https://isort.cibermed.com>

Parent Subsets	Cell Type Description		
B cells	B cells naive	Blood (LM22)	
	B cells memory		
Plasma cells	Plasma cells		
CD8 T cells	T cells CD8		
CD4 T cells	T cells CD4 naive		
	T cells CD4 memory resting		
	T cells CD4 memory activated		
	T cells follicular helper		
	T cells regulatory (Tregs)		
Gamma delta T cells	T cells gamma delta		
NK cells	NK cells resting		Tissue
	NK cells activated		
Monocytes and Macrophages	Monocytes		
	Macrophages M0		
	Macrophages M1		
	Macrophages M2		
Dendritic cells	Dendritic cells resting		
	Dendritic cells activated		
Mast cells	Mast cells resting		
	Mast cells activated		
Eosinophils	Eosinophils		
PMNs	Neutrophils		
	Fibroblasts		
	Endothelial cells		
	Epithelial cells		

iSort™ HiRes

Based on bulk gene expression profiles and the iSort Fractions results, iSort™ HiRes infers cell-type specific gene expression for each sample.



The core algorithm of iSort™ HiRes as well as the validation studies are described in Newman et al, *Nature Biotechnology* (2019).

iSort™ HiRes is currently offered as a Docker-containerized tool which can be run locally.

iSort™ Self-Service Pricing

The table below lists the prices for each software module.

	<ul style="list-style-type: none"> ● Free trial for 15 samples* ● Per-sample token (for light users) <ul style="list-style-type: none"> ○ <50 samples per order: \$50 per sample ○ 50+ samples per order: \$30 per sample ● Annual per-seat token (for heavy users) <ul style="list-style-type: none"> ○ \$6,000/seat/year + \$2/sample
	<p><i>Not</i> including price for iSort Fractions</p> <ul style="list-style-type: none"> ● Free trial for 50 samples ● Per-sample token (for light users) <ul style="list-style-type: none"> ○ <50 samples per order: \$100 per sample ○ 50+ samples per order: \$60 per sample ● Annual per-seat token (for heavy users) <ul style="list-style-type: none"> ○ \$12,000/seat/year + \$4/sample
	<ul style="list-style-type: none"> ● Optional and free with a valid iSort Fractions token. ● Maps and quantify reads ● Outputs (1) gene expression matrix in iSort input format and (2) mapping stats

- ❖ The above prices are valid for 2024, and are subject to change.
- ❖ One "sample" means one gene expression profile. For example, if you have RNA-seq data from 5 patients x 2 conditions, it will be counted as 10 samples.

Free trial

CiberMed offers a free trial. You can run iSort™ Fractions up to 15 samples over 30 days, and iSort™ HiRes up to 50 samples over 60 days.

Per-sample token

We offer per-sample tokens for light users. This token works like a prepaid card.

There is no minimum order, and you can purchase any number of samples assigned to your token. Additionally, if you order 50 or more samples per order, you will receive a discount as shown above.

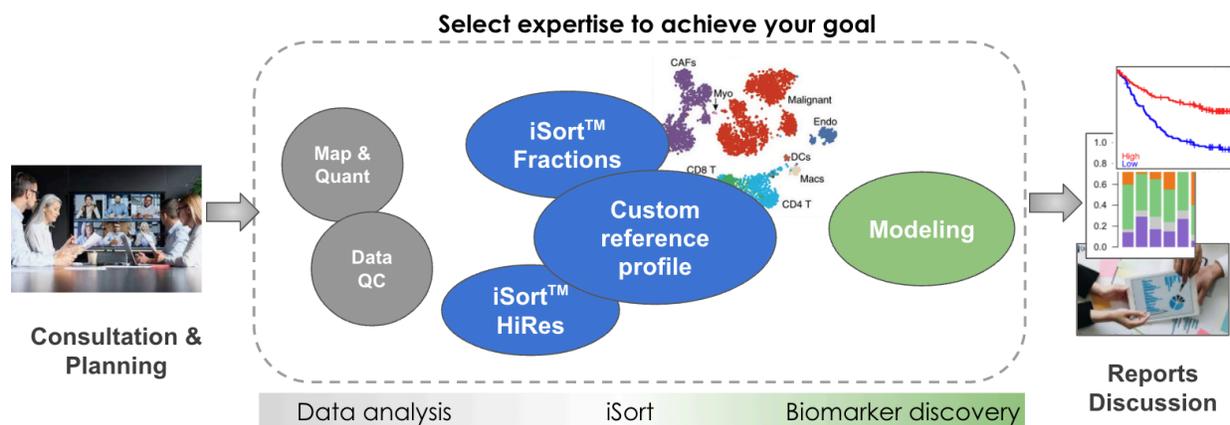
Payment can be made via wire-transfer, PayPal, or credit card (via PayPal). The payment must be made within 30 days from the invoice date.

Seat-based token

An annual seat-based token is offered for heavy users. An annual fee will be invoiced when the token is assigned to the user. Per-sample cost will be invoiced every 3 months, depending upon the actual usage. Wire transfer payment is recommended. The payment must be made within 30 days from the invoice date.

iSort™ Collaboration

CiberMed also offers a complete spectrum of data science services by our highly-skilled team.



If you are interested in our data science services such as data analysis of iSort™ Fractions and/or HiRes including biomarker discovery, or creating custom reference profiles (signature matrices), it will fall into "iSort™ Collaboration".

Every collaboration project is custom-made. We typically start with a Zoom call to understand your goals where we also define the scope of project and actual tasks; our business team then prepares a quote accordingly. You will have direct access to CiberMed co-founders (original authors of CIBERSORTx) and Bioinformatics industry experts for consultation. Our highly skilled experts will perform the data science work for you.

If you are interested in collaboration, contact your sales representative to schedule a meeting.

Questions?

If you have questions or wish to start a free trial, contact your sales representative at CiberMed or support@cibermed.com. If this is the first time you're contacting CiberMed, please contact us via: <https://cibermed.com/contact/>

We look forward to working with you.