

Quick Start Guide: Selector

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Up to 50% of reagents are unsuitable and fail to produce reproducible results. Within the **ASCEND by BenchSci platform**, our **Selector** application helps scientists streamline the selection of suitable reagents and model systems and avoid unnecessary purchases and validation experiments.

1. Video Overview of Selector
2. Impact of Selector on Biomedical Research
3. Steps to Get Started with Selector

What is Selector?

Impact on Biomedical Research

Over **50,000 scientists** at pharmaceutical companies, biotech companies, and 4,500+ academic institutions use **Selector**. BenchSci has developed powerful technology that is **proven to**:



**Accelerate research
by selecting products
in seconds vs. weeks**



**Reduce reagent
spending and save
millions per year**



**Optimize experiment
success and increase
research productivity**



**Have a quantifiable
impact with a proven,
turnkey application**

Explore data for a range of common reagents and model systems

Antibodies



Represents about 40-50% of reagent waste, with millions of products and hundreds of vendors

CRISPR



Requires complex selection of compatible vectors, Cas nucleases, and guide RNA

Proteins



Includes recombinant and purified proteins which are often the second-highest source of waste after antibodies

Animal Models



Often need to consult many studies to identify a model that has been successfully utilized in similar experiments

RNAi



Challenging to search for since products are often custom and cited by their sequence

PCR Primers & Probes



Fundamental molecular biology techniques with millions of products with slight variations that can be difficult to choose from

Cell Products



A critical component of experiments that are prone to mislabeling and unclear validation methods

Comprehensive coverage of trusted literature sources and vendor databases

**Experiment data from
over 27 million preprint,
open- and closed-
access publications**

**Partnerships with
leading scientific
publishers
including Springer
Nature and Wiley**

**Independent validation
sources including The
Human Protein
Atlas and EuroMAbNet**

**Product catalog data for
more than 85
million products
from 450 vendors**

Leverage AI technology to advance your workflow

[illegible]

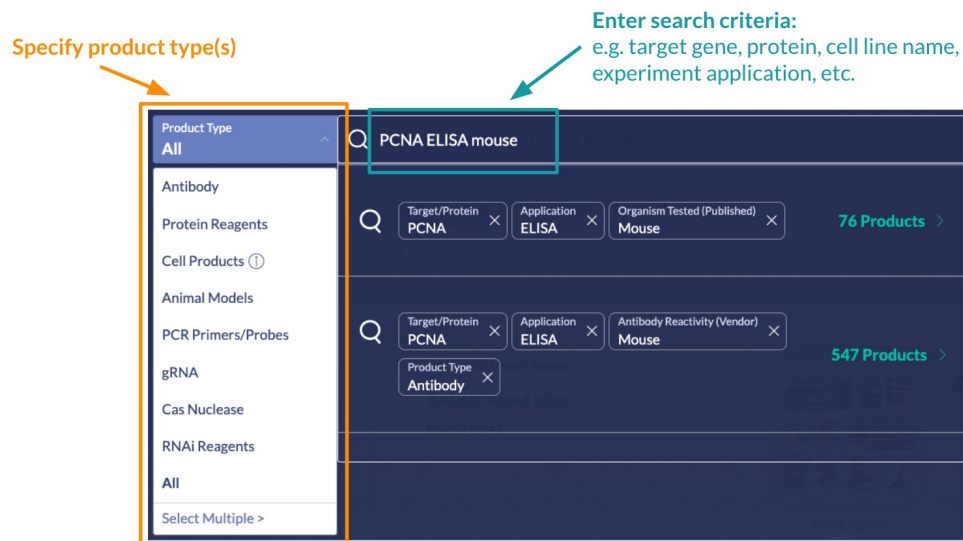
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- The screenshot displays the Abnova website's search results for 'Anti-Huntingtin Protein Antibody'. The interface includes a top navigation bar with tabs for 'Product Type', 'Overexpression', 'Western blot', and 'Left'. A search bar on the right contains the query 'Anti-Huntingtin Protein Antibody'. Below the navigation bar, the results are categorized under 'Products (20)' and 'Figures (822)'. Two specific antibody products are highlighted:
- Anti-Huntingtin Protein Antibody, a.a. 181-810, clone 1HU-4C8** (EMD Millipore | MAB2136): This entry shows 654 matching figures. A thumbnail image of the antibody vial is displayed, along with a table of reactivity data. The reactivity table lists: Monkey (Positive), Rabbit (Positive), Rat (Positive), Mouse (Positive), and Human (Positive).
 - Anti-Huntingtin Protein Antibody, clone mEM48** (EMD Millipore | MAB5376): This entry shows 115 matching figures. A thumbnail image of the antibody vial is displayed, along with a table of reactivity data. The reactivity table lists: Rat (Positive), Mouse (Positive), and Human (Positive).
- Each product entry includes a 'Verified Antibody' badge and a 'See More' link. The reactivity tables are color-coded: green for positive results and red for negative results.

- Text and image-based AI detects details from a figure/experiment like a Ph.D. scientist
- Bioinformatics data and ontologies connect reagent and model usage to diseases, experiment types, and other contexts
- Streamlined gene/protein datasets to reduce common challenges with aliases
- Intuitive interface to curate lists of products that match experiment criteria and validation conditions

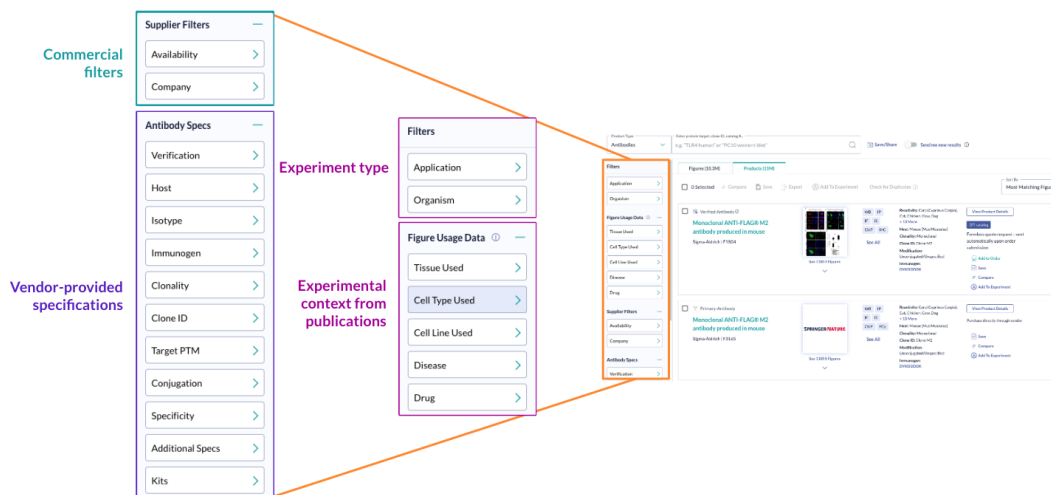
Also available in **Japanese** (日本語) and **Chinese** (中国).

Log in with your institutional email address at app.benchsci.com or click your company logo in this article.

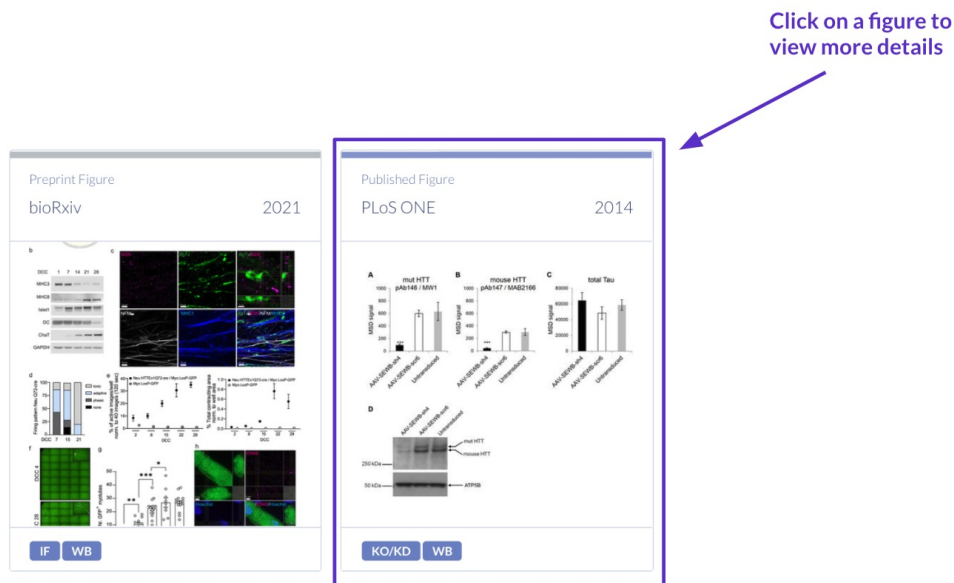
2. Enter search criteria



3. Filter and view search results that match your experiment conditions



4. View figures from peer-reviewed publications, preprints, vendors, and third-party sources



5. Review details from figures to learn more about what reagents/model systems are used in experiments

Published Figure

Journal of Biological Chemistry (2019)

High-mobility group box 1 links sensing of reactive oxygen species by huntingtin to its nuclear entry

Susie Son Et Al.

[See Publication](#)

Products detected in the figure

Verified Antibody

Anti-Huntingtin Protein Antibody, a.a. 181-810, clone 1HU-4C8

EMD Millipore, MAB2166

Cited in paper |

[View Product](#)

A

	Control			10mM 3-NP			
	Input	Beads	HMGB1	Input	Beads	HMGB1	kDa
N17							~35
MBL							~55
S13A							~25
S16A							~25

C

	Control			10mM 3-NP			
	Input	Beads	Co-IP	Input	Beads	Co-IP	kDa
EPR5526							~345
anti-HMGB1							~35

6. Review product details

Target: HTT, HUNTINGTIN

Host: Mouse

Clonality: Monoclonal

Clone ID: 1HU-4C8

[View product specifications](#)

Application	Published Figures	Vendor Recommended
Western Blot	571	⊙
Immunostaining	140	
Immunoprecipitation	120	⊙

Published Application Distribution

762 Published Figures from 292 Publications

[Learn more about how the reagent or model system has been used in experiments](#)

7. Explore custom data integrations to build confidence in your search

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