Guide to Filters for Protein Reagents

> Our filters are key features to quickly focus your search for protein data to help you design better, more successful experiments

Check out these articles to learn more about applying filters

Search terms you can include in the search bar	**What's the difference between using the search bar vs applying filters?**
What's the search logic if I apply more than one filter?	**Excluding search criteria from your search**

Filter type: Application

- Based on **vendor recommendations** or **publication data**

- Narrow down your results based on the type of experiment, such as *western blot*, *immunohistochemistry*, *flow cytometry*, *knockdown*, etc.

  - You can also search with common abbreviations/aliases like *WB*, *IF*, *IHC* or *flow* in the search bar

- Search logic for multiple selections

  - **Product** results = AND (all products must have been used with that context for all selections)

  - **Figure** results = OR (all figure results must contain at least one of the selections)

Filter type: Figure Usage Data

- Narrow down your search results based on **how the product was used in the literature**

- Search logic for multiple selections

  - Applying different **Figure Usage Data** filters = AND

  - Applying multiple within a filter = OR

	Description	Example
Organism Tested	Species of the cell/tissues/animal model an experiment was performed in. This filter also shows a list of aliases/synonyms (ex. *homo sapiens* will be grouped under *human*).	Human Drosophila

Tissue Used	Type of tissue that experiments were performed in	Liver Lung
Cell Type Used	Cell type that the experiments were performed in	Epithelial Neuron
Cell Line Used	Specific names of cell lines that experiments were performed in	HEK293 HeLa cells
Disease	Disease context that experiments are associated with	Breast cancer Chronic kidney disease

Filter type: <u>Supplier</u>

- Narrow down results based on information **about the vendors/suppliers**

- Search logic for multiple **Company** selections: OR (the product or figure results need to match at least one of the companies)

	Description
Availability	This filter hides discontinued or commercially unavailable products—the default option is that all products are shown
Company	The vendor that sells the product — choose or exclude preferred vendors

Filter type: <u>Protein Specs</u>

- Search logic for multiple selections for both product and figure results

    - AND: **PTM, Purity, Formulation**

    - OR: **Protein Type, Species, Expression System, Supplier Validation, Grade, Domain, Modification, Purification Method**

	Description	Example
Protein Type	The type of protein — often related to how it's used	Recombinant Peptide
Species	What species the protein sequence is from.	Human Mouse
Expression System	What system is used to express the protein	E. coli Mammal
<u>Bioactivity</u>	If you want only to show bioactive protein products	
<u>Supplier Validation</u>	How a vendor tested/validated a protein product	SDS-PAGE HPLC

Grade	Identified protein grades for performing particular experiments	Research use only (RUO) Mass spectrometry grade
Sequence	If you want only to show products with a known sequence	
Domain	Specified protein domains	Full length Extracellular region
PTM	Any specific post-translational modifications (PTMs) for the protein product	Phospho Acetyl
Modification	If the protein is conjugated to any tags, reporter proteins, or any specific mutations	GST tag W777A mutation
Purity	Purity of the protein product	$\geq$ 99% $\geq$ 90%
Purification	How the protein product was purified	Affinity purified Filtered
Formulation	Any properties of the protein product with regards to formulation/storage	Carrier-free Lyophilized