



interchim[®]

INTERFINE CHEMICALS

ANALYTICAL SCIENCES

BIOCHROMATOGRAPHY

BIOSCIENCES



Aviva's Antibody Blast

Taking Antibody Search to the Next Level



AVIVA
SYSTEMS
BIOLOGY



Aviva's species reactivity resource

Re-evaluate the species homology of antibodies



Aviva's tissue tool:

Utilizing gene expression data

BIOSCIENCES



+33 4 70 03 88 55



+33 4 70 03 73 06



interbiotech@interchim.com



211 bis Av. J.F. Kennedy - BP 1140
03103 Montluçon - France


www.interchim.com


Aviva's Antibody Blast

Taking Antibody Search to the Next Level



Finding the appropriate antibody for your target of interest can be time consuming and often difficult. Aviva's new Antibody Blast takes the concept of BLAST to a new level by finding antibodies that are homologous to a DNA, RNA, or protein sequence. We can blast any protein sequence against our catalog of over 45,000 antibodies. Whether you have 5 gene targets or 500, it makes no difference. We believe this tool is capable of identifying more antibody candidates, especially for research on unique targets. The final report will display sequence homology and consecutive matches, enabling the researcher to test more antibodies and increase the chances of finding a successful reagent.

The process is simple:

- Send us your protein/DNA/RNA sequence(s):
 1. To submit a sequence please use the following link: <http://www.avivasysbio.com/sd/blast/blast.php>
 2. To submit multiple sequences, please send sequences in Excel file to info@avivasysbio.com.
- Our BLAST algorithm will search Aviva's collection of antibodies for matching sequence specificity.
- You will receive a report of percent homology between the Aviva's antibody specificity and your sequence.

Example Report:

Sequence	Catalog#	Antibody Name	Gene Symbol	Validated	Consecutive Match Count	Total Match	Real Peptide Length	Percent Homology
MEGSKTSSSTMQVSFVCQRC SQPLKLDTS-FKILDRV TIQELTAPLLATAQLKPGETQEEE-ANSGE E PFIETRODGVSRFP PARM MSTE-SANSFTLIGEASDGGTMENLSRRLKVT-GDLFDIMSGQTDVDHPLCEECTDTLL-DQLDTQLNVTENECONYKRCLEILE-QMNEDDSEQLGLELKE LAEEERLIQELED-VEKNRKIVAENLEKVQAE AERLDQEEAQY-QREYSEFKRQQLELDDELKSVEN	ARP58873	BECN1 Antibody - N-terminal region	BECN1	Validated	9	12	14	86
MEGSKTSSSTMQVSFVCQRC SQPLKLDTS-FKILDRV TIQELTAPLLATAQLKPGETQEEE-ANSGE E PFIETRODGVSRFP PARM MSTE-SANSFTLIGEASDGGTMENLSRRLKVT-GDLFDIMSGQTDVDHPLCEECTDTLL-DQLDTQLNVTENECONYKRCLEILE-QMNEDDSEQLGLELKE LAEEERLIQELED-VEKNRKIVAENLEKVQAE AERLDQEEAQY-QREYSEFKRQQLELDDELKSVEN	ARP58595	BECN1 Antibody - N-terminal region	BECN1	Validated	8	13	14	93
MEGSKTSSSTMQVSFVCQRC SQPLKLDTS-FKILDRV TIQELTAPLLATAQLKPGETQEEE-ANSGE E PFIETRODGVSRFP PARM MSTE-SANSFTLIGEASDGGTMENLSRRLKVT-GDLFDIMSGQTDVDHPLCEECTDTLL-DQLDTQLNVTENECONYKRCLEILE-QMNEDDSEQLGLELKE LAEEERLIQELED-VEKNRKIVAENLEKVQAE AERLDQEEAQY-QREYSEFKRQQLELDDELKSVEN	ARP58874	BECN1 Antibody - middle region	BECN1	Validated	14	14	14	100

BIOSCIENCES



+33 4 70 03 88 55



+33 4 70 03 73 06



interbiotech@interchim.com



211 bis Av. J.F. Kennedy - BP 1140
03103 Montluçon - France



www.interchim.com



Aviva's species reactivity resource

Re-evaluate the species homology of antibodies



Aviva uses computational homology to display other relevant species associated with the antigen sequence. By doing so, we have now been able to re-evaluate the species homology of over 50,000 antibodies. So far, we have found over 10,000 species associated with our antibodies.

To determine if an antibody has appropriate homology to your species, visit the product datasheet, click on "Complete Computational Species Homology Data". You will be directed to a complete listing of species with appropriate homology to that antibody. Also included are the reference Uniprot number and the percentage homology between the specific antigen used to produce the antibody.

Please note you can also find isoform information within this report as well. Alternatively, you can submit a sequence and Aviva will do the search for you. To do this, please visit Aviva's Antibody Blast (www.avivasysbio.com/aviva/page/blast).

Aviva's no risk policy:

Although many times Aviva has not tested an antibody with a particular species, we will share the risk and provide a full refund if the antibody does not work.

Example report:

SOX10 Antibody (ARP33326)

Predicted Species & Target	Target P/N	Predicted Homology
African elephant SOX10 antibody; Loxodonta africana SOX10 antibody	G3UDQ3	85%
African elephant SOX10 antibody; Loxodonta africana SOX10 antibody	G3UDQ3	85%
Bovine SOX10 antibody; Bos taurus SOX10 antibody	F1N6W0	92%
Chinese hamster Sox10 antibody; Cricetulus griseus Sox10 antibody	G3I510	92%
Dog SOX10 antibody; Canis familiaris SOX10 antibody	F1PHT3	92%
Duckbill platypus 100090691 antibody; Ornithorhynchus anatinus 100090691 antibody	F7CX93	78%
Gray short-tailed opossum sox10 antibody; Monodelphis domestica sox10 antibody	D1LHP2	84%
Guinea pig Sox10 antibody; Cavia porcellus Sox10 antibody	H0W9P1	92%
Horse SOX10 antibody; Equus caballus SOX10 antibody	F6WZU9	92%
Human SOX10 antibody; Homo sapiens SOX10 antibody	P56693	100%
Human SOX10 antibody; Homo sapiens SOX10 antibody	Q6FHW7	100%

BIOSCIENCES



+33 4 70 03 88 55



+33 4 70 03 73 06



interbiotech@interchim.com



211 bis Av. J.F. Kennedy - BP 1140
03103 Montluçon - France



www.interchim.com



Aviva's tissue tool:

Utilizing gene expression data



Aviva Systems Biology has developed a software program called **Aviva's Tissue Tool** in an effort to aid the research community with new and supportive bioinformatics tools.

Aviva's Tissue Tool uses nucleic acid-based microarray data to predict and confirm the location of protein expression. This tool uses publicly available, gene-specific expression data ordered by tissue or cell type taken from DNA microarray experiments. The main utility of this tool is to allow researchers to quickly infer from gene-specific information gathered at the mRNA transcript level whether a given cell line or tissue sample is supported to express that gene on the protein level. Gene expression profile results are returned and displayed in three categories by DNA microarray format, or dataset; GeneAtlas (tissues), NCI60 (cultured cell lines) and Unigene EST (body sites, disease state and developmental stage).

Look for the Aviva's Tissue Tool icon in the product page.

Click on the icon  to visit the Tissue Tool page.


Basic Info

Reviews and Data(6)

Related Products

Prot

Alias Symbols:
DOM; MGC15649; WS2E; WS4; PCWH; WS4C

Tissue Tool:
Find tissues and cell lines supported to express **SOX10** 

Protein Accession #:
NP_008872

Important for neural crest and peripheral nervous system development. Mutations in this gene are associated with Waardenburg-Shah and Waardenburg-Hirschsprung disease.

Gene Symbol:
SOX10

Concentration:
Batch dependent within range: 10 0.5 - 1 mg/ml

Purification:
Affinity Purified

Complete Computational Spec
Homology Data:
SOX10 antibody - middle region
(ARP33326 P050)

Predicted Homology Based On
Immunogen Sequence:
Human: 100%; **Dog:** 93%; **Pig:** 93%; **Horse:** 93%; **Mouse:** 93%; **Bovin**
93%; Rabbit: 93%; **Guinea pig:** 93%; **Rat:** 86%

Species Reactivity:

Example report:

Gene Name: SOX10 SRY

Probeset: 209842_at

Tissue	Avg	Mean
Amygdala	122.95	52.35
Caudatenucleus	101.7	52.35
CingulateCortex	93.55	52.35
DorsalRoot Ganglion	108.05	52.35
Hypothalamus	142.9	52.35
MedullaOblongata	140.05	52.35
OccipitalLobe	127.65	52.35
OlfactoryBulb	608.55	52.35
ParietalLobe	186.8	52.35
Pons	67	52.35
PrefrontalCortex	186.8	52.35
A361	2616.509	412.03
M14	4142.351	412.03
MALME 3M	5564.098	412.03
MDA MB435	6821.394	412.03
SKMEL2	6052.914	412.03
SKMEL28	6451.177	412.03
SKMEL5	6015.369	412.03

Breakdown by Body Sites

Pool Name	TPM	Gene EST/Total EST in pool
Adrenal Gland	60	2/32940
Blood	8	1/122252
Brain	26	29/1092688
Connective Tissue	6	1/149072
Ear	124	2/10100