



Multi-Species Kits, Detecting Samples from Different Species

The homology of certain protein in different species is very high, from 95% to 100%.

Due to the characteristics of this kind of protein, while an specific antibody is generated, it can recognize the specific protein from different species.

Based on this, Cloud-Clone Corp. develops a new type of ELISA detection kit with antibody which recognizes highly homologous protein. Each of them can detect one specific protein in different samples from different species.



◎ Multi-Species Kits

Catalog No.	Name of ELISA Kit	Applicable Species
SEA289Mi	Histone H4(H4)	Hu/Mu/Ra/Bo/Rb/Po/Ga/Gu/Eq/Ca
SEA285Mi	Histone H3(H3)	Hu/Mu/Ra/Bo/Rb/Po/Ga/Gu/Eq/Ca
SEA356Mi	Histone H2B(H2B)	Hu/Mu/Ra/Bo/Rb/Po/Ga/Gu/Eq/Ca
SEB340Mi	Actin Beta(ACTb)	Hu/Mu/Ra/Bo/Rb/Po/Ga/Gu/Eq
SEB342Mi	Actin Alpha 2, Smooth Muscle (ACTa2)	Hu/Mu/Ra/Bo/Rb/Po/Ga/Gu/Eq
SEJ808Mi	Tyrosine ./Tryptophan 5 Monooxygenase Activation Protein Theta(YWHAq)	Hu/Mu/Ra/Rb/Bo
CEA164Mi	Ubiquitin(Ub)	Hu/Mu/Ra/Rb/Ca/Po/Bo/Eq
SEA594Mi	Cytochrome C, Somatic(CYCS)	Ra/Mu
SED523Mi	Heat Shock Protein 90kDa Alpha A1 (HSP90aA1)	Hu/Mu/Ra/Gu/Po/Ov/Eq

For instance, actin beta(ACTb), which is the main component of cytoskeleton microfilament, is widely distributed in various tissues. The protein is expressed by housekeeping gene, and it is highly conservative, it shares about 100% homology in different mammal species, such as human, mouse, bovine, rat, rabbit, pig, cavpo, horse and chick, etc.



P60709 ACTB_HUMAN	1 MDDDI1AALVVNDNGSMCAGFAGDDAPRAVPPSIVGRPRHQQCVVMGCGKDKSTVYDQEAEQS	60
P60710 ACTB_MOUSE	1 MDDDI1AALVVNDNGSMCAGFAGDDAPRAVPPSIVGRPRHQQCVVMGCGKDKSTVYDQEAEQS	60
P60712 ACTB_BOVIN	1 MDDDI1AALVVNDNGSMCAGFAGDDAPRAVPPSIVGRPRHQQCVVMGCGKDKSTVYDQEAEQS	60
P60711 ACTB_RAT	1 MDDDI1AALVVNDNGSMCAGFAGDDAPRAVPPSIVGRPRHQQCVVMGCGKDKSTVYDQEAEQS	60
P29751 ACTB_RABBIT	1 MDDDI1AALVVNDNGSMCAGFAGDDAPRAVPPSIVGRPRHQQCVVMGCGKDKSTVYDQEAEQS	60
Q6QAQ1 ACTB_PIG	1 MDDDI1AALVVNDNGSMCAGFAGDDAPRAVPPSIVGRPRHQQCVVMGCGKDKSTVYDQEAEQS	60
Q71FK5 ACTB_CAVPO	1 MDDDI1AALVVNDNGSMCAGFAGDDAPRAVPPSIVGRPRHQQCVVMGCGKDKSTVYDQEAEQS	60
P60705 ACTB_HORSE	1 MDDDI1AALVVNDNGSMCAGFAGDDAPRAVPPSIVGRPRHQQCVVMGCGKDKSTVYDQEAEQS	60
P60706 ACTB_CHICK	1 MDDDI1AALVVNDNGSMCAGFAGDDAPRAVPPSIVGRPRHQQCVVMGCGKDKSTVYDQEAEQS	60

P60709 ACTB_HUMAN	61 KRCGILTLKYP1IEHC1VTNWDDMEK1WHHTFYNELRVAAPEEEHVLLTEAPLNPKANREKMT	120
P60710 ACTB_MOUSE	61 KRCGILTLKYP1IEHC1VTNWDDMEK1WHHTFYNELRVAAPEEEHVLLTEAPLNPKANREKMT	120
P60712 ACTB_BOVIN	61 KRCGILTLKYP1IEHC1VTNWDDMEK1WHHTFYNELRVAAPEEEHVLLTEAPLNPKANREKMT	120
P60711 ACTB_RAT	61 KRCGILTLKYP1IEHC1VTNWDDMEK1WHHTFYNELRVAAPEEEHVLLTEAPLNPKANREKMT	120
P29751 ACTB_RABBIT	61 KRCGILTLKYP1IEHC1VTNWDDMEK1WHHTFYNELRVAAPEEEHVLLTEAPLNPKANREKMT	120
Q6QAQ1 ACTB_PIG	61 KRCGILTLKYP1IEHC1VTNWDDMEK1WHHTFYNELRVAAPEEEHVLLTEAPLNPKANREKMT	120
Q71FK5 ACTB_CAVPO	61 KRCGILTLKYP1IEHC1VTNWDDMEK1WHHTFYNELRVAAPEEEHVLLTEAPLNPKANREKMT	120
P60705 ACTB_HORSE	61 KRCGILTLKYP1IEHC1VTNWDDMEK1WHHTFYNELRVAAPEEEHVLLTEAPLNPKANREKMT	120
P60706 ACTB_CHICK	61 KRCGILTLKYP1IEHC1VTNWDDMEK1WHHTFYNELRVAAPEEEHVLLTEAPLNPKANREKMT	120

P60709 ACTB_HUMAN	121 QIMPFETNPAMYYA1QAVLSSLVYLASGRTTGIVMDSDGVTHITVPIYEYGVALPHATLRLDL	180
P60710 ACTB_MOUSE	121 QIMPFETNPAMYYA1QAVLSSLVYLASGRTTGIVMDSDGVTHITVPIYEYGVALPHATLRLDL	180
P60712 ACTB_BOVIN	121 QIMPFETNPAMYYA1QAVLSSLVYLASGRTTGIVMDSDGVTHITVPIYEYGVALPHATLRLDL	180
P60711 ACTB_RAT	121 QIMPFETNPAMYYA1QAVLSSLVYLASGRTTGIVMDSDGVTHITVPIYEYGVALPHATLRLDL	180
P29751 ACTB_RABBIT	121 QIMPFETNPAMYYA1QAVLSSLVYLASGRTTGIVMDSDGVTHITVPIYEYGVALPHATLRLDL	180
Q6QAQ1 ACTB_PIG	121 QIMPFETNPAMYYA1QAVLSSLVYLASGRTTGIVMDSDGVTHITVPIYEYGVALPHATLRLDL	180
Q71FK5 ACTB_CAVPO	121 QIMPFETNPAMYYA1QAVLSSLVYLASGRTTGIVMDSDGVTHITVPIYEYGVALPHATLRLDL	180
P60705 ACTB_HORSE	121 QIMPFETNPAMYYA1QAVLSSLVYLASGRTTGIVMDSDGVTHITVPIYEYGVALPHATLRLDL	180
P60706 ACTB_CHICK	121 QIMPFETNPAMYYA1QAVLSSLVYLASGRTTGIVMDSDGVTHITVPIYEYGVALPHATLRLDL	180

P60709 ACTB_HUMAN	181 AGEDLTIDYLMKII1TERGYSF1TTAAE1REIV1V01KEKL1CYVALDFEQEMATAASSSSLEKSY	240
P60710 ACTB_MOUSE	181 AGEDLTIDYLMKII1TERGYSF1TTAAE1REIV1V01KEKL1CYVALDFEQEMATAASSSSLEKSY	240
P60712 ACTB_BOVIN	181 AGEDLTIDYLMKII1TERGYSF1TTAAE1REIV1V01KEKL1CYVALDFEQEMATAASSSSLEKSY	240
P60711 ACTB_RAT	181 AGEDLTIDYLMKII1TERGYSF1TTAAE1REIV1V01KEKL1CYVALDFEQEMATAASSSSLEKSY	240
P29751 ACTB_RABBIT	181 AGEDLTIDYLMKII1TERGYSF1TTAAE1REIV1V01KEKL1CYVALDFEQEMATAASSSSLEKSY	240
Q6QAQ1 ACTB_PIG	181 AGEDLTIDYLMKII1TERGYSF1TTAAE1REIV1V01KEKL1CYVALDFEQEMATAASSSSLEKSY	240
Q71FK5 ACTB_CAVPO	181 AGEDLTIDYLMKII1TERGYSF1TTAAE1REIV1V01KEKL1CYVALDFEQEMATAASSSSLEKSY	240
P60705 ACTB_HORSE	181 AGEDLTIDYLMKII1TERGYSF1TTAAE1REIV1V01KEKL1CYVALDFEQEMATAASSSSLEKSY	240
P60706 ACTB_CHICK	181 AGEDLTIDYLMKII1TERGYSF1TTAAE1REIV1V01KEKL1CYVALDFEQEMATAASSSSLEKSY	240

P60709 ACTB_HUMAN	241 ELPDCQV1IT1GNERFRCPEALFQPSFLGLMESCG1HE1TTFNS1IMKCDVD1IRKDLYANTVLS	300
P60710 ACTB_MOUSE	241 ELPDCQV1IT1GNERFRCPEALFQPSFLGLMESCG1HE1TTFNS1IMKCDVD1IRKDLYANTVLS	300
P60712 ACTB_BOVIN	241 ELPDCQV1IT1GNERFRCPEALFQPSFLGLMESCG1HE1TTFNS1IMKCDVD1IRKDLYANTVLS	300
P60711 ACTB_RAT	241 ELPDCQV1IT1GNERFRCPEALFQPSFLGLMESCG1HE1TTFNS1IMKCDVD1IRKDLYANTVLS	300
P29751 ACTB_RABBIT	241 ELPDCQV1IT1GNERFRCPEALFQPSFLGLMESCG1HE1TTFNS1IMKCDVD1IRKDLYANTVLS	300
Q6QAQ1 ACTB_PIG	241 ELPDCQV1IT1GNERFRCPEALFQPSFLGLMESCG1HE1TTFNS1IMKCDVD1IRKDLYANTVLS	300
Q71FK5 ACTB_CAVPO	241 ELPDCQV1IT1GNERFRCPEALFQPSFLGLMESCG1HE1TTFNS1IMKCDVD1IRKDLYANTVLS	300
P60705 ACTB_HORSE	241 ELPDCQV1IT1GNERFRCPEALFQPSFLGLMESCG1HE1TTFNS1IMKCDVD1IRKDLYANTVLS	300
P60706 ACTB_CHICK	241 ELPDCQV1IT1GNERFRCPEALFQPSFLGLMESCG1HE1TTFNS1IMKCDVD1IRKDLYANTVLS	300

P60709 ACTB_HUMAN	301 GCTTMYPG1ADRMQKE1IT1ALAPS1TMK1K1IAPPERKYSVW1IGGSILASLSTPQQMWISKQ	360
P60710 ACTB_MOUSE	301 GCTTMYPG1ADRMQKE1IT1ALAPS1TMK1K1IAPPERKYSVW1IGGSILASLSTPQQMWISKQ	360
P60712 ACTB_BOVIN	301 GCTTMYPG1ADRMQKE1IT1ALAPS1TMK1K1IAPPERKYSVW1IGGSILASLSTPQQMWISKQ	360
P60711 ACTB_RAT	301 GCTTMYPG1ADRMQKE1IT1ALAPS1TMK1K1IAPPERKYSVW1IGGSILASLSTPQQMWISKQ	360
P29751 ACTB_RABBIT	301 GCTTMYPG1ADRMQKE1IT1ALAPS1TMK1K1IAPPERKYSVW1IGGSILASLSTPQQMWISKQ	360
Q6QAQ1 ACTB_PIG	301 GCTTMYPG1ADRMQKE1IT1ALAPS1TMK1K1IAPPERKYSVW1IGGSILASLSTPQQMWISKQ	360
Q71FK5 ACTB_CAVPO	301 GCTTMYPG1ADRMQKE1IT1ALAPS1TMK1K1IAPPERKYSVW1IGGSILASLSTPQQMWISKQ	360
P60705 ACTB_HORSE	301 GCTTMYPG1ADRMQKE1IT1ALAPS1TMK1K1IAPPERKYSVW1IGGSILASLSTPQQMWISKQ	360
P60706 ACTB_CHICK	301 GCTTMYPG1ADRMQKE1IT1ALAPS1TMK1K1IAPPERKYSVW1IGGSILASLSTPQQMWISKQ	360

P60709 ACTB_HUMAN	361 EYDESGPS1IVHRRKCF	375
P60710 ACTB_MOUSE	361 EYDESGPS1IVHRRKCF	375
P60712 ACTB_BOVIN	361 EYDESGPS1IVHRRKCF	375
P60711 ACTB_RAT	361 EYDESGPS1IVHRRKCF	375
P29751 ACTB_RABBIT	361 EYDESGPS1IVHRRKCF	375
Q6QAQ1 ACTB_PIG	361 EYDESGPS1IVHRRKCF	375
Q71FK5 ACTB_CAVPO	361 EYDESGPS1IVHRRKCF	375
P60705 ACTB_HORSE	361 EYDESGPS1IVHRRKCF	375
P60706 ACTB_CHICK	361 EYDESGPS1IVHRRKCF	375

Figure 1. Sequence alignment analysis of ACTb in human, mouse, bovine, rat, rabbit, pig, cavpo, horse and chicken

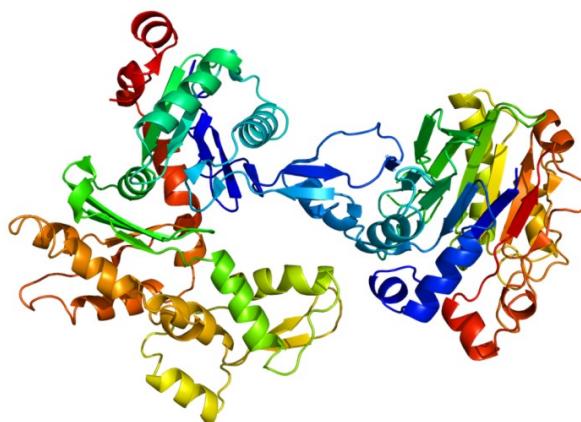


Figure 2. Tertiary structure of ACTb in different species