

## Unique Features of DNA RNA Protein Sets

The set includes genomic DNA, RNA (total RNA and mRNA), and Protein isolated from the same piece of biomaterials, such as tissues or cells simultaneously. DNA RNA Protein Sets are particularly important for functional genomics and proteomics study, such as gene regulation, expression of genes and protein, among DNA, RNA, and protein. DNA RNA Protein Set products, have the same high qualities as those products isolated separately by conventional methods. There are many commercialized kits and reagents for RNA isolation, though some of them can also isolate genomic DNA and protein at the same time, the qualities, especially of proteins, are not as good as the RNA quality. Comparing with the protein isolation only method, the yield is only 10-30%. This means many proteins are possibly missing, and therefore researchers seldom used proteins isolated by those kits and reagents, for protein expression profiling, protein quantitation, protein purification, and etc..

DNA RNA Protein Sets are ready to use, and DNA RNA Protein Set derivative products, such as northern blots, western blots, cDNA, and etc. are available. Following features have been integrated into our DNA RNA Protein Sets to ensure the superior quality.

1. Genomic DNA, RNA, and protein are isolated from the same piece of biomaterials
2. The integrity of DNA RNA Protein Sets is maintained

RNA and protein are not degraded. Full length RNA was proved by 5' selecting cDNA synthesis. Full length protein was proved on SDS-PAGE analysis, the size of proteins can reach over 400 kd (largest protein marker is about 250 kd).

3. The purity of DNA RNA Protein Sets is high, and there is no cross contamination among them
4. The yield of DNA RNA Protein Sets is the same as DNA, RNA, and protein isolated separately
5. The functions of DNA RNA Protein Sets are maintained  
DNA RNA Protein Set RNAs can be used for making northern blot, doing RT-PCR, creating full length cDNA, and etc..  
DNA RNA Protein Set proteins can be used for making western blots and tissue protein arrays, and immunoprecipitation.
- DNA RNA Protein Set genomic DNAs show even better agarose gel image than genomic DNAs isolated by any other methods. DNA RNA Protein Set genomic DNAs can be digested with restriction enzymes, used as template for PCR the same as any other genomic DNAs.
6. DNA RNA Protein Sets can be made from almost any kind of biomaterials that have genomic DNA, RNA, and protein
7. DNA RNA Protein Sets from tumor/adjacent normal tissue pairs, same tissues from different donors, different tissues from the same donor are available