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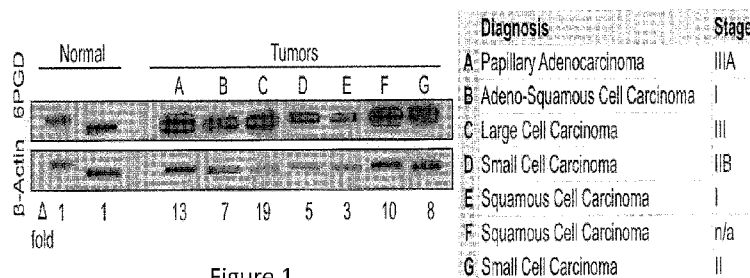


Figure 1

(57) Abstract: The present invention relates to methods, compositions, and diagnostic tests for treating and diagnosing a proliferative disease that result in dysregulation of 6-phosphogluconate dehydrogenase. In particular, the methods and compositions include treatment of gefitinib/erlotinib resistant proliferative diseases such as lung cancer using a 6-phosphogluconate dehydrogenase antagonist.